



BEGO CATALOGUE DENTAL TECHNOLOGY

Valid from March 2013

Partners in Progress





Dipl.-Kfm. Christoph Weiss
Managing Partner

Trustworthiness and reliability for today and the future

Dear customers and partners,

The dental world is continually in flux. New materials, procedures and devices present dental technicians, dentists and implantologists with the challenge of staying abreast of contemporary developments in order to provide the best technical and highest-quality solutions. Yet, at the same time, they also have to guarantee that these solutions are economically viable. It is the good right of patients to expect nothing less.

In this situation it is good to have a fixed anchor point. A partner with comprehensive know-how, which has been gained in the course of many decades of experience, and a partner that, time and again, has set milestones as a pioneer of innovative ideas. Briefly stated: A partner like BEGO, which has already been demonstrating exactly these traits, every day, for more than 120 years.

Be it because of our comprehensive competence in materials and alloys, our mastery of digital processes and production methods, the successful implementation of bionic insights gained in the field of implantology, the cooperation with the scientific world, or application-specific consultation offered at master-expert level: Operators worldwide rely on this specific BEGO competence, which has seen us become one of the internationally leading dental companies – with the unique portfolio of products and services “Made in Germany”.

In everything we do, we are always guided by the principles of trustworthiness and reliability. These principles constitute the foundation for the cooperation with our customers, partners and employees. Our mutual objective: Peak performance in customer service and product quality.

Completely in tune with current developments, yet also keeping the future firmly in sight. This is what BEGO stands for. To ensure that you are always on the safe side – and always in the vanguard.

Bremen, in the spring of 2013


Christoph Weiss


Dr. Thomas Kosin



Dr.-Ing. Thomas Kosin
Managing Director

Up-to-date information on the internet whenever you need it



www.bego.com



www.bego-medical.de



www.bego-implantology.com

Guarantee

Whether given verbally, in writing or through practical instructions, our process-related data and recommendations are based upon our own experience and trials and can only be considered as standard values. Our products are constantly subject to further development. We therefore reserve the right to modify the design and composition at any time.

Status as of: March 1, 2013

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In the beginning there was gold

Two families by the names of Herbst and Weiss were instrumental in making the BEGO company what it is today. What was once a small firm manufacturing gold foil has grown into a globally operating dental company with branches and agencies in many important export markets, such as the USA, Canada, France, China and Australia.

When Bremer Goldschlägerei first opened its workshop in 1890, the foundation stone for the modern BEGO was laid. Back then, gold was the most important material in dentistry.

Today, precious metal continues to play an important role in the company's extensive product mix. Successful precious-metal alloys such as Bio PontoStar® XL and InLloyd® 100 still enjoy market recognition and demand.

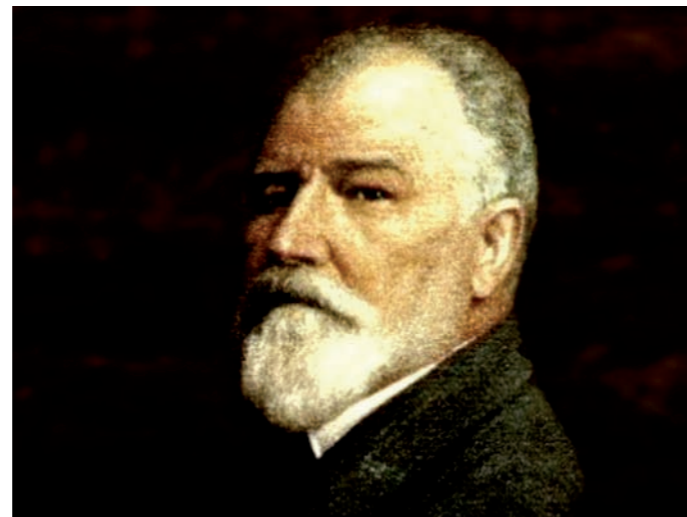
Gold will no doubt retain its importance as the highest-quality material available. But when it comes to material expertise, we have a lot more to offer.

In addition to high-gold alloys, BEGO supplies dental laboratories with numerous, different, non-precious alloys, e.g., Wirobond®, Wiron®, WIRONIUM® and Wironit®. These alloys are perfectly tailored to the investment materials and equipment from BEGO, and thus ensure optimal handling.

More than 100 years of experience form the basis of our expertise in the field of dental technology. Today, the Dental division supplies a wide range of high-quality products tailored to the dental technician's requirements. The decisive factors shaping the services we provide are expertise, know-how and creative company management which enables ideas and visions to be realised. This means that our business partners around the world know that they can always rely on an innovative range of high-quality products from BEGO Dental which offer optimum quality and functionality.

To complement its excellent materials, BEGO also supplies a wide range of highly specialised dental laboratory equipment. Together they form a perfect system which delivers high-quality and precise partial dentures and are also suitable for crown and bridge work.

Trust is worth its weight in gold.



Dr. h.c. Wilhelm Herbst, a dentist, laid the foundation of our company with his idea of using adhesive dental gold instead of beaten gold filling material.



PRECIOUS-METAL ALLOYS

BEGO has the right alloy for every indication. All ceramics and composites used in the dental laboratory are suitable as veneering materials.

A full list of our precious metal alloys is available as a download from www.bego.com/download-center.

Bio PontoStar® XL

- High-gold alloy with a high gold and platinum content – for optimal processing
- Rich yellow colour – for restorations which are at once aesthetic and high-quality
- Contains no copper or palladium – extremely corrosion-resistant
- Light-coloured oxide – for greater reliability in aesthetic ceramic veneering
- Biocompatible – verified by an independent institute



PontoLloyd® G

- Extra-hard, high-gold universal alloy – suitable for all indications!
- Yellow colour – for aesthetic and high-quality restorations
- With indium – for reliable ceramic veneering
- Copper-free – also suitable for sensitive patients
- Biocompatible and corrosion-resistant – biocompatibility verified by an independent institute



BegoCer® G

- Extra-hard universal alloy with reduced gold content for ceramic veneering
- Wide range of indications – from crowns to superstructures
- Copper-free – ideal for sensitive patients
- Biocompatible and corrosion-resistant – biocompatibility verified by an independent institute



BegoPal® 300

- Wide range of indications – from crowns to suprastructures
- Copper-free – ideal for sensitive patients
- Light-coloured oxide – greater reliability in the colouring of the ceramic
- Alloyed with gold and silver – excellent melting, flow and soldering properties
- Biocompatible and corrosion-resistant – biocompatibility verified by an independent institute



Product details	
Composition in % by mass	
Au 86.0 · Pt 11.5 · Zn 1.6 · In, Rh, Fe each < 1	
Alloy characteristics	Standard values
Type (ISO 22674)*	4
Density (spec. gravity) [g/cm ³]	18.8
Coefficient of thermal expansion [10 ⁻⁶ K ⁻¹]	14.2
25–500 °C	
Coefficient of thermal expansion [10 ⁻⁶ K ⁻¹]	14.4
20–600 °C	
Preheating temperature [°C]	850
Casting temperature [°C]	approx. 1270
Melting interval solidus-liquidus [°C]	1045–1100
Modulus of elasticity [GPa]	approx. 100
Elongation limit (R _{p0.2}) [MPa] after firing	500
Ductile yield (A ₅) [%] after firing	7
Vickers hardness (HV5) after firing	215
BEGO Colour Code	yellow 5
Availability	REF
Bio PontoStar® XL	61140
Laser welding wire	61167
Bio PontoStar®-XL wire Ø 0.35 mm	
Accessories	
Solder (cadmium-free) before firing	PontoStar®-G solder (1030 °C)
Solder (cadmium-free) after firing	BEGO-GOLD solder I (810 °C)
Flux	Minoxid

Conforms with ISO 9693-1 for metal-ceramics
Conforms with ISO 22674 for use as crown and bridge alloy

CE 0197

Product details	
Composition in % by mass	
Au 84.1 · Pt 8.3 · Pd 4.8 · In 2.7 · Ta < 1	
Alloy characteristics	Standard values
Type (ISO 22674)*	4
Density (spec. gravity) [g/cm ³]	18.1
Coefficient of thermal expansion [10 ⁻⁶ K ⁻¹]	14.1
25–500 °C	
Coefficient of thermal expansion [10 ⁻⁶ K ⁻¹]	14.3
20–600 °C	
Preheating temperature [°C]	850
Casting temperature [°C]	approx. 1370
Melting interval solidus-liquidus [°C]	1100–1230
Modulus of elasticity [GPa]	approx. 100
Elongation limit (R _{p0.2}) [MPa] after firing	470
Ductile yield (A ₅) [%] after firing	6
Vickers hardness (HV5) after firing	200
BEGO Colour Code	yellow 6
Availability	REF
PontoLloyd® G	61106
Laser welding wire	61166
PontoLloyd®-G wire Ø 0.35 mm	
Accessories	
Solder (cadmium-free) before firing	PontoStar®-G solder (1030 °C)
Solder (cadmium-free) after firing	• BEGO-GOLD solder I (810 °C) • Pre-flux U Goldsolder (810 °C)
Flux	Minoxid

Conforms with ISO 9693-1 for metal-ceramics
Conforms with ISO 22674 for use as crown and bridge alloy

CE 0197

Product details	
Composition in % by mass	
Au 51.5 · Pd 38.4 · In 8.7 · Ga 1.3 · Ru	
Alloy characteristics	Standard values
Type (ISO 22674)*	4
Density (spec. gravity) [g/cm ³]	14.3
Coefficient of thermal expansion [10 ⁻⁶ K ⁻¹]	13.7
25–500 °C	
Coefficient of thermal expansion [10 ⁻⁶ K ⁻¹]	13.9
20–600 °C	
Preheating temperature [°C]	850
Casting temperature [°C]	approx. 1390
Melting interval solidus-liquidus [°C]	1155–1310
Modulus of elasticity [GPa]	approx. 125
Elongation limit (R _{p0.2}) [MPa] heat-treated	550
Ductile yield (A ₅) [%] heat-treated	12
Vickers hardness (HV5) heat-treated	230
BEGO Colour Code	white 8
Availability	REF
BegoCer® G	61097
Laser welding wire	61164
BegoCer® G wire Ø 0.35 mm	
Accessories	
Solder (cadmium-free) before firing	PontoRex® solder (880 °C)
Solder (cadmium-free) after firing	PontoRex® solder (710 °C)
Flux	Minoxid

Conforms with ISO 9693-1 for metal-ceramics
Conforms with ISO 22674 for use as crown and bridge alloy

CE 0197

Product details	
Composition in % by mass	
Au 6.0 · Pd 75.4 · Ag 6.2 · In 6.3 · Ga 6.0 · Ru < 1	
Alloy characteristics	Standard values
Type (ISO 22674)*	4
Density (spec. gravity) [g/cm ³]	11.0
Coefficient of thermal expansion [10 ⁻⁶ K ⁻¹]	13.8
25–500 °C	
Coefficient of thermal expansion [10 ⁻⁶ K ⁻¹]	14.0
20–600 °C	
Preheating temperature [°C]	850–950
Casting temperature [°C]	1390–1440
Melting interval solidus-liquidus [°C]	1175–1320
Modulus of elasticity [GPa]	135
Elongation limit (R _{p0.2}) [MPa] after firing	520
Ductile yield (A ₅) [%] after firing	28
Vickers hardness (HV5) after firing	240
BEGO Colour Code	white 8
Availability	REF
BegoPal® 300	61105
Laser welding wire	61165
BegoPal®-300 wire Ø 0.4 mm	
Accessories	
Solder (cadmium-free) before firing	BegoStar® solder (1125 °C)
Solder (cadmium-free) after firing	• BEGO-GOLD solder I (810 °C) • Pre-flux U Goldsolder (810 °C)
Flux	Minoxid

Conforms with ISO 9693-1 for metal-ceramics
Conforms with ISO 22674 for use as crown and bridge alloy

CE 0197

ECO d'OR

- Extra-hard universal alloy with reduced gold content – suitable for all indications
- Also suitable for veneering with LFC materials – strong bond even when subjected to multiple firing
- Biocompatible and corrosion-resistant – biocompatibility verified by an independent institute



Product details	
Composition in % by mass	
Ag 40.5 · Au 38.1 · Pd 13.0 · In 8.0 · Mn, Ta each < 1	
Alloy characteristics	Standard values
Type (ISO 22674)*	4
Density (spec. gravity) [g/cm ³]	13.1
Coefficient of thermal expansion [10 ⁻⁶ K ⁻¹] 25–500 °C	17.0
Coefficient of thermal expansion [10 ⁻⁶ K ⁻¹] 20–600 °C	17.4
Preheating temperature [°C]	700
Casting temperature [°C]	approx. 1200
Melting interval solidus-liquidus [°C]	975–1030
Modulus of elasticity [GPa]	approx. 114
Elongation limit (R _{p0.2}) [MPa] after firing	500
Ductile yield (A ₅) [%] after firing	7
Vickers hardness (HV5) after firing	215
BEGO Colour Code	yellow 6
Availability	REF
ECO d'Or	61112
Laser welding wire	61170
ECO d'Or wire Ø 0.35 mm	
Accessories	
Solder (cadmium-free) before firing	• BEGO-LFC solder I (930 °C) • Bio PlatinLloyd® solder (870 °C)
Solder (cadmium-free) after firing	Bio PlatinLloyd® solder (710 °C)
Flux	Minoxid

Conforms with ISO 9693-1 for metal-ceramics
Conforms with ISO 22674 for use as crown and bridge alloy

CE 0197

BegoPal® S

- Suitable for veneering with composites and conventional ceramics
- Copper-free – ideal for sensitive patients
- Light-coloured oxide – greater reliability in the colouration of the ceramic
- Biocompatible and corrosion-resistant – biocompatibility verified by an independent institute



Product details	
Composition in % by mass	
Pd 57.5 · Ag 31.5 · Sn 9.0 · In 1.9 · Ru < 1	
Alloy characteristics	Standard values
Type (ISO 22674)*	4
Density (spec. gravity) [g/cm ³]	11.1
Coefficient of thermal expansion [10 ⁻⁶ K ⁻¹] 25–500 °C	14.4
Coefficient of thermal expansion [10 ⁻⁶ K ⁻¹] 20–600 °C	14.6
Preheating temperature [°C]	850
Casting temperature [°C]	approx. 1450
Melting interval solidus-liquidus [°C]	1210–1290
Modulus of elasticity [GPa]	approx. 118
Elongation limit (R _{p0.2}) [MPa] after firing	470
Ductile yield (A ₅) [%] after firing	7
Vickers hardness (HV5) after firing	220
BEGO Colour Code	white 8
Availability	REF
BegoPal® S	61086
Laser welding wire	61165
BegoPal® 300 wire Ø 0.35 mm	
Accessories	
Solder (cadmium-free) before firing	BegoStar® solder (1125 °C)
Solder (cadmium-free) after firing	BEGO-Gold solder I (810 °C)
Flux	Minoxid

Conforms with ISO 9693-1 for metal-ceramics
Conforms with ISO 22674 for use as crown and bridge alloy

CE 0197

Complementary products!

Bellavest® SH Shock heat – rapidly or conventionally heatable precision casting investment material for crowns and bridges – also those made from pressable or press-to-metal ceramics

- The precision crown and bridge investment material Bellavest® SH offers outstanding versatility and flexibility
- Appointments can be coordinated with ease because Bellavest® SH can either be preheated rapidly, with an insertion temperature of up to 900°C, or conventionally
- Phosphate-bonded precision casting investment material offers reliable, simple handling along with optimal parameters of use
- Simple to use with the special mixing liquid BegoSol® HE for maximum flexibility in conjunction with just a single liquid
- Precise expansion control and fine, creamy consistency for reliable processing and reproducible quality for a range of indications, from pressable ceramics to telescopic crowns made from non-precious alloys
- Long working time of 5 minutes enables reliable, fatigue-free working
- Extremely smooth cast surfaces make for a good accuracy of fit and time savings due to minimal finishing times
- Cures with a high edge-strength, yet still permits easy deflasking. For the user, this means time savings and economical use of blasting materials (Korox®, REF 46014, page 92)

For detailed information see page 40.



BellaStar XL

The premium investment material for crowns and bridges

- Extremely fine-grained with an excellent accuracy of fit
- Ideal for precious-metal alloys, but also well suited for non-precious alloys in many indications
- BellaStar XL is suitable for rapid or conventional heating, and the insertion temperature can be the same as the final temperature
- Thin-to-creamy consistency and optimal flow properties allow problem-free filling of even the finest model details
- Fine-grained raw materials make for extremely smooth and precise cast surfaces
- The casting mould can be fabricated with a fixed ring or without a ring, and the mould sizes can be freely selected
- Outstanding deflasking properties make it easier to remove the investment material. This saves time and emphasises the balanced application properties
- BellaStar XL stands for flexibility and trusted, reliable and fatigue-free processing with superb precision
- Reliable expansion control for excellent fit results thanks to BegoSol® K special liquid

For detailed information see page 42.

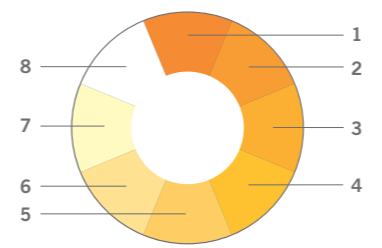


BEGO-Gold																																		
Alloy	Bio-certificate	Standards ISO	REF	Type according to ISO 22674	BEGO colour code no.	Composition in % by mass (x < 1%)							Other elements (< 1%)	Density [g/cm ³]	Vickers hardness (HV 5)			Elongation limit (R _{p0.2}) [MPa]			Ductile yield (A ₅) [%]			Modulus of elasticity approx. [GPa]	Melting range [°C]	Casting temperature [°C]	Preheating temperature [°C]	CTE 25-500°C (20-600°C) [10 ⁻⁶ K ⁻¹]	Oxide firing		Laser welding/pure filler alloy available	Solders • Before firing ■ After firing		
						Au	Pt	Pd	Ag	Cu	Sn	Zn			In	soft	after casting/firing	heat-treated	soft	after casting/firing	heat-treated	soft	after casting/firing						heat-treated	°C			min.	with vacuum
Alloys for conventional ceramics																																		
Bio PontoStar® XL	✓	9693-1 + 22674	61140	4	5	86.0	11.5	-	-	-	1.6	x	Rh · Fe	18.8	155	215	220	330	500	510	18	7	6	100	1045-1100	1270	850	14.2 (14.4)	900	5	✓	✓	• PontoStar® G solder 1030°C ■ BEGO-Gold solder 1810°C	
Bio PontoStar®	✓	9693-1 + 22674	61104	4	5	87.0	10.6	-	-	-	1.5	x	Rh · Mn · Ta	18.8	160	225	235	380	550	560	11	8	6	100	1040-1150	1270	850	14.2 (14.4)	950	10	-	✓	• PontoStar® G solder 1030°C ■ BEGO-Gold solder 1810°C	
PontoStar® G	✓	9693-1 + 22674	61046	4	4	85.6	11.4	-	-	-	2.5	-	Rh · Fe	18.0	130	175	190	225	430	460	13	9	8	92	1055-1140	1320	850	14.4 (14.6)	950	1	-	✓	• PontoStar® G solder 1030°C ■ BEGO-Gold solder 1810°C	
PontoStar® H		9693-1 + 22674	61030	4	7	77.6	18.8	-	x	-	2.2	-	Ir · Fe	18.5	150	220	220	380	520	520	10	6	6	115	1080-1180	1320	850	13.8 (14.0)	950	10	-	✓	• PontoStar® G solder 1030°C ■ BEGO-Gold solder 1810°C	
PontoLloyd® G	✓	9693-1 + 22674	61106	4	6	84.1	8.3	4.8	-	-	-	2.7	Ta	18.1	190	200	210	430	470	495	10	6	3	100	1100-1230	1370	850	14.1 (14.3)	960	10	-	✓	• PontoLloyd® solder 1120°C ■ BEGO-Gold solder 1810°C	
PontoLloyd® P	✓	9693-1 + 22674	61087	4	8	77.5	9.9	8.9	1.0	x	x	-	1.4	Ir · Fe	17.9	175	205	210	470	490	500	7	5	4	110	1145-1215	1380	850	13.8 (14.0)	960	10	-	✓	• PontoLloyd® solder 1120°C ■ BEGO-Gold solder 1810°C
PontoLloyd® L		9693-1 + 22674	61100	4	8	75.0	-	17.9	3.0	-	1.5	-	2.5	Re	16.3	150	205	220	350	530	560	26	8	6	110	1150-1240	1430	850	14.1 (14.3)	960	10	-	✓	• PontoLloyd® solder 1120°C ■ BEGO-Gold solder 1810°C
BegoCer® G	✓	9693-1 + 22674	61097	4	8	51.5	-	38.4	-	-	-	-	8.7	Ru · Ga 1.3	14.3	190	220	230	475	520	550	19	16	12	125	1155-1310	1450-1500	850-950	13.7 (13.9)	960	2-3	-	✓	• PontoStar® solder 1125°C ■ BEGO-Gold solder 1810°C
BegoStar®	✓	9693-1 + 22674	61080	4	8	54.0	-	26.5	15.5	-	2.4	-	1.4	Ru · Re	13.8	205	225	230	460	510	530	21	15	13	113	1230-1280	1420	850	14.0 (14.2)	960	10	-	✓	• PontoStar® solder 1125°C ■ BEGO-Gold solder 1810°C
BegoStar® ECO	✓	9693-1 + 22674	61121	4	8	15.0	-	51.9	23.0	-	4.0	-	6.0	Ru	11.2	205	215	-	360	440	-	35	22	-	135	1250-1310	1430	850	14.2 (14.5)	960	2-3	-	✓	• PontoStar® solder 1125°C ■ BEGO-Gold solder 1810°C
BegoPal® 300	✓	9693-1 + 22674	61105	4	8	6.0	-	75.4	6.2	-	-	-	6.3	Ru · Ga 6.0	11.0	220	240	260	450	520	540	30	28	25	135	1175-1320	1390-1140	850-890	13.8 (14.0)	960	2-3	-	✓	• PontoStar® solder 1125°C ■ BEGO-Gold solder 1810°C
BegoPal® S	✓	9693-1 + 22674	61086	4	8	-	-	57.5	31.5	-	9.0	-	1.9	Ru	11.1	210	220	230	400	480	520	10	7	6	118	1210-1290	1450	850	14.4 (14.6)	960	10	-	✓	• PontoStar® solder 1125°C ■ BEGO-Gold solder 1810°C
Alloys for high-expanding ceramics (low-fusing dental ceramics)																																		
Bio PlatinLloyd®	✓	9693-1 + 22674	61125	4	4	75.1	7.8	-	14.8	-	1.8	-	Rh · Mn · Mg	16.3	165	205	215	330	490	520	10	6	5	120	990-1065	1250	700	16.0 (16.2)	780	10	-	✓	• BEGO LFC solder 1930°C • BioPlatinLloyd® solder 870°C ■ BioPlatinLloyd® solder 710°C	
Pontonorm (only available in Germany)	✓	9693-1 + 22674	61126	4	3	73.8	9.0	-	9.2	4.4	-	2.0	1.5	Ir	16.7	150	200	230	-	480	500	-	12	6	105	900-990	1150	700	16.5 (16.8)	780	5	✓	✓	• PontoRex® solder 880°C ■ PontoRex® solder 710°C
PontoRex® G	✓	9693-1 + 22674	61016	4	4	70.0	9.4	-	13.2	3.0	-	2.0	1.9	Ir · Rh	16.2	155	200	220	310	440	450	16	11	9	100	910-995	1150	700	16.1 (16.3)	800	10	-	✓	• PontoRex® solder 880°C ■ PontoRex® solder 710°C
PlatinLloyd® KF	✓	9693-1 + 22674	61025	4	4	72.8	2.0	5.7	16.1	-	-	3.0	-	Mn · Rh	15.6	155	250	255	330	580	600	18	6	4	120	980-1070	1200	700-750	16.2 (16.4)	800	10	-	✓	• BEGO LFC solder 1930°C • PontoRex® solder 880°C ■ PontoRex® solder 710°C
BegoLloyd® LFC	✓	9693-1 + 22674	61116	4	5	62.8	3.0	5.7	25.0	-	-	2.2	1.2	Ru	14.6	150	225	225	330	575	575	23	13	6	105	985-1060	1250	700	16.4 (16.9)	800	5	✓	✓	• BEGO LFC solder 1930°C • BioPlatinLloyd® solder 870°C ■ BioPlatinLloyd® solder 710°C
AuroLloyd® KF	✓	9693-1 + 22674	61052	4	6	55.0	-	10.0	29.2	-	1.0	1.2	3.5	Ru	13.9	150	200	220	615	480	520	18	7	6	106	950-1060	1230	700	17.1 (17.3)	800	10	-	✓	• PontoRex® solder 880°C ■ PontoRex® solder 710°C
ECO d'OR	✓	9693-1 + 22674	61112	4	6	38.1	-	13.0	40.5	-	-	-	8.0	Mn · Ta	13.1	-	215	220	-	500	565	-	7	8	114	975-1030	1200	700	17.0 (17.4)	800	5	-	✓	• BEGO LFC solder 1930°C • BioPlatinLloyd® solder 870°C ■ BioPlatinLloyd® solder 710°C
BegoStar® LFC	✓	9693-1 + 22674	61107	4	8	x	-	35.0	58.9	-	1.0	4.0	-	Zr · Ru	10.8	175	200	-	-	400	-	-	12	-	113	1080-1150	1300	700	16.6 (16.8)	780	10	-	✓	• BEGO LFC solder 1930°C • PontoRex® solder 880°C ■ PontoRex® solder 710°C
Alloys for crowns and bridges (only suitable for veneering with composite)																																		
InLloyd® 100	✓	22674	61120	2	2	78.1	3.9	-	15.5	-	2.4	-	Ir	16.5	120	150	150	200	245	245	26	12	12	90	935-1005	1200	700	-	-	-	-	✓	BEGO-Gold solder I 810°C BEGO-Gold solder II 765°C Pre-flux U Gold solder 810°C	
PlatinLloyd® 100	✓	22674	61020	4	3	72.0	3.5	-	13.7	9.8	-	x	-	Ir	15.5	155	220	225	340	500	510	40	15	14	95	900-940	1050	700	-	-	-	-	✓	BEGO-Gold solder I 810°C BEGO-Gold solder II 765°C Pre-flux U Gold solder 810°C
PlatinLloyd® M		22674	61009	4	4	70.0	5.0	1.0	11.7	10.0	-	1.9	x	Re	15.7	190	270	285	440	650	690	25	11	8	98	880-940	1020	700	-	-	-	-	✓	BEGO-Gold solder I 810°C BEGO-Gold solder II 765°C Pre-flux U Gold solder 810°C
BegoLloyd® M		22674	61036	4	4	65.0	x	3.1	19.1	10.0	-	2.0	x	Ir	14.7	155	235	240	350	560	570	50	23	21	102	860-940	1050	700	-	-	-	-	✓	BEGO-Gold solder I 810°C BEGO-Gold solder II 765°C Pre-flux U Gold solder 810°C
AuroLloyd® M		22674	61054	4	5	54.0	1.0	5.0	29.0	8.0	-	1.0	1.9	Ir	13.5	190	250	270	350	455	460	12	6	4	107	860-920	1100	700	-	-	-	-	✓	BEGO-Gold solder I 810°C BEGO-Gold solder II 765°C Pre-flux U Gold solder 810°C
Midigold		22674	61082	4	5	49.5	-	3.4	35.0	10.0	-	-	2.0	Ru	12.8	120	235	245	225	620	650	15	5	3	93	830-920	1030	700	-	-	-	-	✓	BEGO-Gold solder I 810°C BEGO-Gold solder II 765°C Pre-flux U Gold solder 810°C

The specified data are standard. Subject to change. © 0197

Types according to ISO 22674

- Type 2: Intended for fixed, single-tooth restorations, e.g. crowns or inlays, where the number of surfaces is not limited.
- Type 3: Intended for fixed, multi-unit restorations, e.g. bridges, telescopic and conical crowns, posts.
- Type 4: Intended for restorations with thin cross-sections which are exposed to very high loads, e.g. removable partial dentures, clasps, veneered crowns, bridges with long spans or small cross-sections, bars, fixtures, implant-supported superstructures.



The BEGO Colour Code
The areas of colours within the characteristic fields approximately correspond to the intensity of the alloy colours.

BEGO-GOLD alloys and solders are medical devices in accordance with Regulation 93/42 EEC. According to the Annex IX, the products are classified in Class IIa.




WORK PREPARATION

Proven materials and techniques in work preparation provide the basis for successful, accurate fabrication of a restoration.

Blow-off nozzle

- The tried and tested blow-off nozzle, made of rugged hard rubber, is ideal for cooling and blowing off models


Product details			
Availability	Presentation	Qty	REF
Blow-off nozzle	piece	1	21700



Ney measuring set

- The measuring instruments are used for model analysis, measuring undercuts and marking the equator in the partial denture technique


Product details			
Scope of delivery	Presentation	Qty	REF
Set of tools, shaft Ø 3 mm; 1 set consisting of undercut measuring instruments:			22160
1 0.25 mm	piece	1	22145
2 0.50 mm	piece	1	22146
3 0.75 mm	piece	1	22147
4 Locating pin	piece	1	22148
5 Wax scraper	piece	1	22149
6 Refill holder	piece	1	22163
Graphite refills	pack	1	22150



Model base former

- Ensures clean, smooth model base without grinding. Two sizes are available for both the upper and lower jaw

Product details				
Availability	Contents	Presentation	Qty	REF
U1 (Lower jaw small)	5	set	1	52641
U2 (Lower jaw large)	5	set	1	52642
O1 (Upper jaw small)	5	set	1	52661
O2 (Upper jaw large)	5	set	1	52671
sorted (U1, U2, O1, O2 for each piece)	4	pack	1	52630



BegoStone plus super-hard plaster

- Type 4 high-quality, super-hard plaster which has been tried and tested over many years for building up models for the crown and bridge, inlay, partial denture and CAD/CAM techniques
- Optimal accuracy of detail with all standard impression materials demonstrates the extraordinary versatility of the product
- The thixotropic properties of BegoStone allow an immediate build-up. BegoStone exhibits outstanding flow properties with only gentle vibration, making it easy to ensure that all parts of the impression are filled without any bubbles
- An ideal working time of approx. 5 minutes enables fatigue-free working
- The colour, ivory 35, guarantees that all fine details and preparation margins can be clearly captured and recognised in a scan
- Very smooth model surfaces and high abrasion resistance combined with ideal expansion values (0.09%, linear) provide an optimal basis for extremely precise restorations
- Extremely high bending tensile strength ensures optimal resistance against teeth and stumps breaking off
- Controlled batch-to-batch consistency means that BegoStone plus facilitates precise results which can be reproduced at any time

Product details

Physical data				
Colour	ivory 35			
Soaking time	15 seconds			
Processing time at 20 °C	approx. 5 minutes			
Setting time (Vicat test)	approx. 10 minutes			
Compressive strength after 1 hour [MPa]	60			
Bending tensile strength (DIN) after 24 hours [MPa]	12			
Setting expansion [%]	0.09			
Hardening time	approx. 30 minutes			
Hardness after 1 hour [MPa]	approx. 220			
Availability	Contents	Presentation	Qty	REF
BegoStone plus	5 kg	tub	1	54812
BegoStone plus	12 kg	tub	1	54811

Scannable!



A detailed brochure can be found at www.bego.com/download-center.

DIN EN ISO 6873

Iso 8 Insulating material for composite techniques

- Iso 8 reliably insulates plaster against composite and facilitates clean and simple separation

Product details

Availability	Contents	Presentation	Qty	REF
Iso 8	1 litre	bottle	1	52700



DUPLICATING AND HARDENING

The duplicate model is an important step in achieving an accurate fit. Here BEGO offers an optimised and practical system: gels and silicones with high impression-taking accuracy, tried and tested duplicating flasks and perfect equipment for their handling.

Gelovit 200

Robust duplicating unit – reliable, consistent results

- The programmable brushless motor offers greater reliability than conventional motors for unrivalled durability
- Intelligent programming emphasises the unit’s reliability and long service life
- Innovative preparation concept with intelligent temperature control effectively prevents lumps forming in the hydrocolloid and guarantees the fastest possible preparation without scorching
- The special heating strategy prevents residue deposits and nozzle blockages whilst maintaining homogeneity
- A third temperature level minimises the heat shrinkage of the hydrocolloid and ensures an optimal fit
- The time at which the hydrocolloid is required to be ready can be easily pre-programmed for optimum processing.
- The number of required melting cycles can be entered individually. This ensures consistent quality of the duplicate models.
- The clearly laid out display provides information on all parameters and gives quick and easy access to all important functions



Product details				
Technical data				
Height	565 mm			
Width	310 mm			
Depth	355 mm			
Rated voltage	200–230 V, 50/60 Hz			
Special voltage	100–240 V, 50/60 Hz			
Power at rated voltage 230 V	900 W			
Capacity	3–6 kg			
Weight	20 kg			
Availability		Presentation	Qty	REF
Gelovit 200, 230 V, 50/60 Hz		piece	1	26330
Accessories	Contents	Presentation	Qty	REF
WiroGel® M duplicating gel for plaster, investment material and acrylic casting technique	6 kg	tub	1	54351
Castogel® duplicating gel for investment material and acrylic casting technique	6 kg	tub	1	52052
Wirodouble® duplicating gel for investment material	6 kg	tub	1	52050
Combi duplicating flask, acrylic		piece	1	52090

A detailed brochure can be found at www.bego.com/download-center.

Complementary product:
The appropriate gel is on the next page!



Duplicating gel

WiroGel® M Environmentally-friendly duplicating gel based on agar-agar hydrocolloid for investment material, plaster and the acrylic casting technique

- For universal use: For all phosphate-bonded investment materials and type 4 plasters, as well as a wide range of applications in the acrylic casting technique
- Highly accurate impression-taking; smooth model surfaces guarantee reliability in use and enable work results which meet the highest demands in terms of precision
- 15 melting cycles mean a very good cost-benefit ratio – suitable for melting in a microwave without compromising quality or precision
- Duplicating with WiroGel® M is more than five times less expensive than with silicone, taking into account the costs for the duplicating unit
- Colour geared to contrast optimisation, thus ensuring optimal process reliability

Product details				
Availability	Contents	Presentation	Qty	REF
WiroGel® M	6 kg	tub	1	54351
WiroGel® M	10 kg	tub	1	54354
Accessories		Presentation	Qty	REF
Combi duplicating flask		piece	1	52090



Complementary product
Wirovest® or WiroFast
Optimally coordinated system components make for simple handling and maximum user safety (partial denture investment materials on pages 36 and 38)



A detailed brochure can be found at www.bego.com/download-center.

Castogel® and Castogel® mint Reversible special duplicating hydrocolloid

- Special duplicating hydrocolloid for sophisticated partial dentures, combination work and the acrylic casting technique
- User-friendly thanks to its high level of impression-taking accuracy, even with the finest of details, and tear-resistant due to its outstanding elasticity.
This offers you the necessary reliability and precision in use
- Castogel® mint with additional fresh mint fragrance
- Economical - can be reused many times
- Ecological - completely biodegradable


Product details				
Availability	Contents	Presentation	Qty	REF
Castogel®	6 kg	tub	1	52052
Castogel® mint	10 kg	tub	1	52049



Wirodouble® Reversible duplicating hydrocolloid

- Proven duplicating hydrocolloid for phosphate- or silicate-bonded investment models
- Frequent reusability is guaranteed by a high quality standard and makes for a user-friendly and economical product

Product details				
Availability	Contents	Presentation	Qty	REF
Wirodouble®	6 kg	tub	1	52050




Combi duplicating flask for partial denture technique

Combi duplicating flask

- The low thermal conductivity of the plastic guarantees stress-free cooling of the duplicating material
- Two wedges integrated in the flask cover prevent rotation and ensure proper placement of the form back in the flask
- The Combi duplicating flasks are designed for use with our mould rings



Product details			
Availability	Presentation	Qty	REF
1 Combi duplicating flask with wedge top, base and 2 base formers (2 sizes)	piece	1	52090



Wirosil® Duplicating silicone

- Wirosil® is an addition-cured two-component silicone that reproduces master models extremely accurately due to its excellent dimensional stability
- With economy flask and stabilisation insert it enables work to be carried out easily and reliably without wasting material
- Ideal for duplicating milled areas in combination work. Mixing ratio: 1 : 1


Product details				
Physical data				
Processing time	approx. 5 minutes			
Setting time (22 °C)	30–40 minutes			
Shore A hardness (1 hr.)	17			
Ductile yield	250 %			
Contraction (DIN 13913)	0.03 %			
Availability	Presentation	Qty	REF	
Basic Wirosil® set: 1 bottle each = 1 kg Wirosil® 1+2, 1 measuring and mixing cup, 1 spatula, 1 duplicating flask, small, 1 duplicating flask, large, 1 spray bottle Aurofilm wetting agent, 1 spray bottle Durofluid model spray, 1 instruction for use	piece	1	52000	
Accessories	Contents	Presentation	Qty	REF
Single pack Wirosil® 1 + 2 (1 each)	1 kg	bottle	1	52001
Large pack Wirosil® 1 + 2 (1 each)	10 kg	canister	1	51995
Wirosil® mixing set		set	1	52004
Aurofilm wetting agent (spray bottle)	100 ml	piece	1	52019
Durofluid modelling spray (spray bottle)	100 ml	piece	1	52008
Complementary product				
Wiroplus® S oder Wirofine Optimally matched system components mean clear handling, processing reliability with high-quality expert results (page 35 and 39)				

Wirosil® duplicating flask system

- Precise reproduction, saving of material, dimensional stability and easy handling characterise the Wirosil® duplicating flask system. It consists of:
 - the base that holds the model
 - the sleeve with the optimal shape for upper and lower jaw models
 - the stabilisation insert of crucial importance for precision after removal of the master model and
 - three replaceable palate formers that essentially support reproduction accuracy and enable extremely economical silicone consumption through flexible positioning


Product details			
Availability	Presentation	Qty	REF
Wirosil® duplicating flask system incl. stabilisation ring with 3 palate formers small	set	1	52072
large	set	1	52083
Accessories	Presentation	Qty	REF
Stabilisation ring with 3 palate formers: for small duplicating flask	piece	1	52079
for large duplicating flask	piece	1	52084



Durol E Eco hardening liquid

- The ecological dipping hardener Durol E is solvent-free and therefore completely biologically safe. During drying, hardly any odour develops since there are no solvents present
- Can be cleaned off surfaces with water
- 25% saving in time and energy, because a drying temperature of 150°C is sufficient


Product details				
Availability	Contents	Presentation	Qty	REF
Durol E Eco hardening liquid	1 litre	bottle	1	52148



Durol / Durofluid Hardening liquid

- Cold hardener for investment models
- Durol and Durofluid are used cold and penetrate extremely well into the surface of duplicate models during hardening; the models become hard and smooth
- 250°C drying temperature

Product details				
Availability	Contents	Presentation	Qty	REF
Durol dipping hardener	1 litre	bottle	1	52111
Durofluid modelling spray (1 spray bottle)	100 ml	piece	1	52008




MODELLING

Your wax-up is like the signature of your dental laboratory: carefully selected wax components help you to achieve perfect results. Partially prefabricated profiles make for reliable and fast work.

Preparation wax for the partial denture technique

- The preparation wax is exceptionally malleable, allowing it to be adapted to the master model perfectly and with firm adhesion, which saves having to use an additional wax adhesive
- The exemplary shape retention and edge strength of the preparation wax, with a high solidification point of approx. 70°C, mean that it can be used with duplicating hydrocolloid at working temperatures of 55°C
- Simple removal from the master model following duplication rounds off the user-friendly working characteristics perfectly

Product details				
Availability	Contents	Presentation	Qty	REF
Preparation wax, colour: red, sheet size 17.5 x 8 cm				
0.5 mm	15 sheets	pack	1	40036
0.6 mm	15 sheets	pack	1	40037
0.7 mm	15 sheets	pack	1	40038



Blocking-out wax tailored to the particular requirements of the partial denture technique

- This wax was developed for blocking out undercuts, creating clasp steps and relieving critical areas of the model
- This blocking-out wax can be easily scraped and cut, is hard and thus ensures the dimensionally-stable, well-defined reproduction of clasp steps on the investment model
- The boiling-out temperature of approx. 90°C, the setting temperature of approx. 68°C and the melting temperature of approx. 80 - 85°C guarantee reliability and resilience during duplication, even at high temperatures

Product details				
Availability	Contents	Presentation	Qty	REF
Blocking-out wax, colour: pink				
	70 g	tin	1	40032



Smooth casting wax

- Simple, crease-free adaptation
- Adheres firmly to the investment model and burns out leaving no residue
- The high transparency of the wax makes for optimal clarity of the construction markings on the master model and saves unnecessary, time-consuming corrections to the wax-up

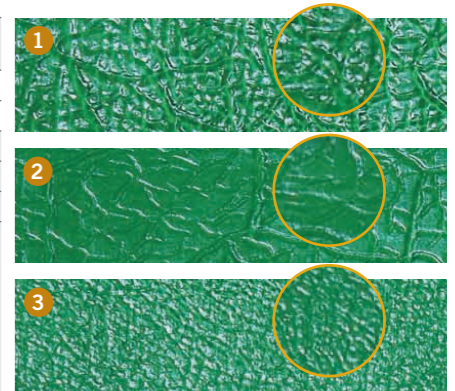
Product details				
Availability	Contents	Presentation	Qty	REF
Smooth casting wax, colour: green, Sheet size 17.5 x 8 cm				
0.25 mm	15 sheets	pack	1	40091
0.3 mm	15 sheets	pack	1	40092
0.4 mm	15 sheets	pack	1	40093
0.5 mm	15 sheets	pack	1	40094
0.6 mm	15 sheets	pack	1	40095



Stippled casting wax

- Tried and tested wax for modelling the bases of upper partial dentures
- Can be easily adapted and adheres firmly to the investment model with no additional wax adhesive
- The stippled casting wax is available in three different surface textures – from fine to coarse – and allows customisation of the surface shape as required by the practitioner
- The individual stippling of the cast partial denture base facilitates the gripping of food and reduces the foreign body sensation for the patient's tongue

Product details			
Availability	Contents	Presentation	Qty
Stippled casting wax, colour: green, Sheet size 15 x 7,5 cm			
	REF	REF	REF
	1 coarse veined	2 medium veined	3 fine veined
0.35 mm	40160	40192	40210
0.4 mm	40170	40193	40220
0.5 mm	40180	40194	40230
0.6 mm	40190	40195	40240



Wax profiles

- Tried and tested wax profile shapes make for easy, customised wax-up for a wide range of indications in dental technology
- BEGO wax profiles are very easy to mould, do not bend up and can be easily fixed to the investment model
- The wax formula is designed to provide high internal stability and thus offers remarkable protection against inadvertent deformation and constriction during shaping

Product details				
Availability	Contents	Presentation	Qty	REF
Wax profiles, colour: green, length 17 cm				
• 0.8 mm beading wire	30 g	pack	1	40261
• 1.0 mm beading wire	40 g	pack	1	40263
• 1.35 mm sprues	50 g	pack	1	40301
• 1.6 x 4.0 mm bars, lower jaw	75 g	pack	1	40421
• 2.0 x 4.0 mm bars, lower jaw	85 g	pack	1	40422
• 1.15 x 1.75 mm clasps, continuous clasps	50 g	pack	1	40441
• 2.0 x 4.5 mm casting strips, upper jaw (small bases)	90 g	pack	1	40462
• 2.0 x 6.5 mm casting strips, upper jaw	125 g	pack	1	40461



Flat casting strips – optimally adapted for the casting of maxillary bases

The creation and dimensioning of the sprues are just as important as a precise wax-up. In the case of transverse bars, horseshoe-shaped and large maxillary partial denture bases, the flat casting strips have proven particularly successful.

Tip: Wax profiles 2.0 mm x 6.5 mm for sprues on large maxillary wax-ups, wax profiles 2.0 mm x 4.5 mm for delicate maxillary wax-ups

Wax profile assortment

- The BEGO wax profile assortment includes the most widely used profiles for wax-ups, which come in a practical box with compartments
- Medium-hard wax quality

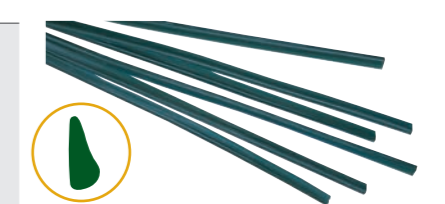
Product details			
Availability	Presentation	Qty	REF
Wax profile assortment, colour: green, length 17 cm consisting of:			
• 0.8 mm beading wire = 6 g			
• 1.35 mm Gusskanäle = 10 g			
• 2.0 x 4.0 mm bars, lower jaw = 17g			
• 2.0 x 6.5 mm casting strips, upper jaw = 2 x 25 g			
• 1.15 x 1.75 mm clasps, cont. clasps = 10 g			



Anatomical wax bar profiles for lower-jaw partial denture frames

- The rounded upper edge and concave shape facing the tongue plus the anatomical lower-jaw profile make for good patient acceptance.
- Tip: For periodontal prophylaxis, a distance of 4 mm should be maintained between the gingival margin and the upper edge of the bar in the case of lower-jaw partial denture bases

Product details				
Availability	Contents	Presentation	Qty	REF
Anatomical wax bar profile, colour: green, length 17 cm	15 pieces	pack	1	40075



Modelling wax starter set for the partial denture technique

- The modelling wax starter set for the partial denture technique includes the most commonly used wax patterns and profiles, ideal for familiarisation and for dental laboratories with a small proportion of partial dentures
- The various profiles cover almost all the indications of the partial denture technique

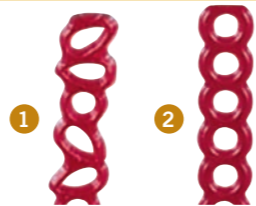
Product details			
Availability	Presentation	Qty	REF
Modelling wax starter set	piece	1	40251



Wax retentions for lower-jaw partial denture frames

- For the secure attachment of plastic saddles to lower partial dentures

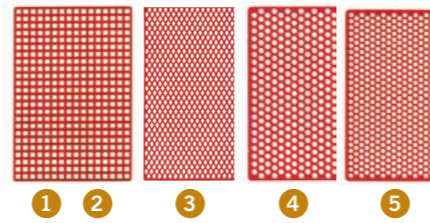
Product details				
Availability	Contents	Presentation	Qty	REF
Colour: red, length: 17 cm				
1 Wax hole retentions	15 pieces	pack	1	40620
Wax hole retentions (laboratory pack)	150 pieces	pack	1	40630
2 Wax retentions with round holes	15 pieces	pack	1	40051
Wax retentions with round holes (laboratory pack)	150 pieces	pack	1	40052



Wax grid retentions for maxillary partial denture frames

- 1 Wax grid retentions – permit the simple and effective shaping of retentions to total or partial dentures. They guarantee a high level of security in the connection between the resin and the partial denture plate. The large grid retentions facilitate very economical use of material
- 2 the same as 1 but with a larger plate
- 3 Wax diagonal grid retentions – for shaping the retentions for partial dentures. This particularly advantageous shape offers a very high degree of security in the connection between the resin and the dentures
- 4 + 5 Wax grid retentions with holes – can be used as retentions for partial maxillary dentures and as a reinforcement for acrylic full maxillary acrylic dentures

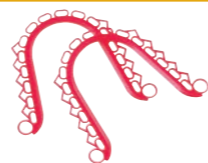
Product details				
Availability	Contents	Presentation	Qty	REF
Wax grid retentions, colour: red				
1 60 x 42 mm	25 pieces	pack	1	40060
2 100 x 100 mm	10 pieces	pack	1	40062
3 75 x 150 mm	10 pieces	pack	1	40061
4 for partial upper-jaw dentures, 70 x 70 mm	20 pieces	pack	1	40066
5 for upper-jaw dentures, 70 x 70 mm	20 pieces	pack	1	40039



Wax border strips with retentions

- Time savings when modelling upper-jaw frames with large saddles
- A great advantage is that the border strip can easily be shaped as desired since the size can be varied by trimming the tips of the retentions
- The wax is so supple that it can be shaped easily and reliably as required onto the duplicate model

Product details				
Availability	Contents	Presentation	Qty	REF
Wax border strips, colour: red, length 17 cm				
	25 pieces	pack	1	40025



Wax clasp profiles for molars and premolars – medium hard, dimensionally stable –

- The half tear-drop shaped cross section prevents food residues from getting stuck on molars and premolars and increases the stability over the entire clasp length
- All in all a very slender clasp profile with very good acceptance among patients

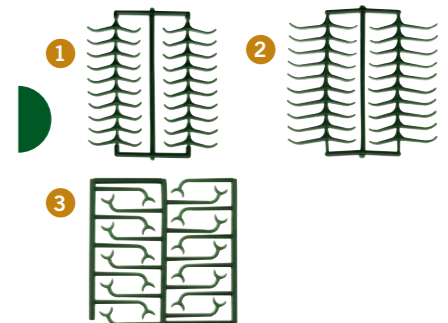
Product details				
Availability	Contents	Presentation	Qty	REF
Wax clasp profiles, colour: green, (280 clasps)				
	10 sheets	pack	1	40020



Wax patterns / wax clasp profile

- These preshaped clasp profiles simplify modelling and help save time
- The shape of the profiles enables a large number of variations by shortening the wax form

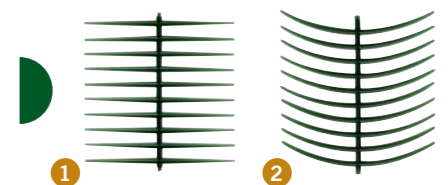
Product details				
Availability	Contents	Presentation	Qty	REF
Wax patterns / wax clasp profile colour: green (200 clasps)				
1 for premolars	10 sheets	pack	1	40021
2 for molars	10 sheets	pack	1	40022
3 for Bonyhard clasps	10 sheets	pack	1	40024



Wax patterns ring clasp profile

- Slender standard clasp profiles for molars

Product details				
Availability	Contents	Presentation	Qty	REF
Wax patterns ring clasp profile colour: green				
1 straight	10 sheets	pack	1	40029
2 curved	10 sheets	pack	1	40023



Wax wire for sprues

- BEGO wax wires are very easy to shape, do not bend up, and burn out leaving no residue. This allows casting of stress-free constructions and use with pressable ceramics
- The wax formula is designed to provide high internal stability and offers remarkable protection against inadvertent deformation and constriction during bending
- The wax wire facilitates economical use because only the length that is actually required can be cut off.
- An opening in the side of the outer packaging allows the wax wire to be fed directly from the pack, thus offering optimal protection against undesirable impurities and deformations

Product details				
Availability	Contents	Presentation	Qty	REF
Wax wire, medium-hard, colour: green				
Ø 2.5 mm, approx. 50 m	250 g	roll	1	40085
Ø 3.0 mm, approx. 36 m	250 g	roll	1	40086
Ø 3.5 mm, approx. 28 m	250 g	roll	1	40087
Ø 4.0 mm, approx. 21 m	250 g	roll	1	40088
Ø 5.0 mm, approx. 17 m	250 g	roll	1	40089



Plastic sticks and plastic hollow sticks for distribution channels

- They stabilise the wax-up when using the lift-off technique for crowns and bridges, can be easily shaped over a flame, and burn out leaving no residue
- Hollow sticks are used in metal-ceramic work for non-precious alloys and alloys with a reduced precious metal content, especially in larger multi-unit constructions

Product details				
Availability	Contents	Presentation	Qty	REF
Sticks, length 17 cm, Ø 2.5 mm	40 pieces	pack	1	52590
● (Cross section 1:1)				
Hollow sticks, length 16.5 cm, Ø 5 mm	12 pieces	pack	1	52595
○ (Cross section 1:1)				



Rapid-Wax-System compatibel with Rapid Ringless System

- Time savings as compared to individual sprue system technique
- Secure position and dimensions
- Reliable sprue transitions
- Modelling wax that burns without residue

Product details				
Availability	Contents	Presentation	Qty	REF
Direct wax sprues				
Ø 2.0 mm	250 pieces	pack	1	40654
Ø 2.5 mm	250 pieces	pack	1	40655
Ø 3.2 mm	250 pieces	pack	1	40656
Ø 5.0 mm	100 pieces	pack	1	40652
Ø 5.0 mm	250 pieces	pack	1	40653
Wax button for Rapid Ringless System	100 pieces	pack	1	40657



Occlusal wax

- Ideal for efficient and aesthetic wax-ups of the occlusal surfaces
- The opaque wax is extremely easy to apply, the contours already stand out clearly whilst still in a heated condition
- The BEGO occlusal waxes do not stain or stick and are highly suitable for milling

Product details				
Availability	Contents	Presentation	Qty	REF
Occlusal wax, colour: grey	70 g	tin	1	40114
Occlusal wax, colour: ivory	70 g	tin	1	40118



Aroma occlusal wax

- Aroma occlusal wax is based on BEGO occlusal wax and comes with individual fragrances


Product details				
Availability	Contents	Presentation	Qty	REF
Aroma occlusal wax Wild berries, colour: grey	70 g	tin	1	40120
Aroma occlusal wax Vanilla, colour: ivory	70 g	tin	1	40123



FC modelling wax for pressable ceramics

- Special wax for crowns and bridges in press technique and press-to-metal technique, burns out leaving no residue
- This high-quality modelling wax is specially formulated for the full ceramic sector


Product details				
Availability	Contents	Presentation	Qty	REF
FC modelling wax, colour: navajowhite	70 g	tin	1	40103
FC modelling wax, colour: grey	70 g	tin	1	40105



- 1 Crown wax
- 2 Milling wax
- 3 Cervical wax

- 1 High-quality hard and medium-hard wax for wax-ups in the crown and bridge technique. It can be built up very easily, solidifies quickly and exhibits ideal scraping characteristics
- 2 BEGO milling waxes in green and grey are specially formulated to meet the particular challenges of machine processing.
 - The ideal hardness of the wax prevents shavings from adhering to the wax-up and clogging up the milling tool, so the view of the milled surface is unobstructed at all times
 - The grey milling wax is also formulated with the maximum possible opacity, thus enabling optimal visual assessment of the milled surfaces and contours
 - Also ideal for milled bar constructions, e.g. on implants, thanks to its hardness and excellent milling properties
 - Tip: Optimal milling speed in the range 2500 - 5000 rpm (depending on the cutting edge geometry and diameter of the cutter)
- 3 Special wax with a low elastic limit for modelling cervical margins of crowns, precision components and inlays. Stress-free; smooth-flowing and burns out leaving no residue


Product details				
Availability	Contents	Presentation	Qty	REF
1 Crown wax				
hard: colour blue	70 g	tin	1	40111
hard: colour grey	70 g	tin	1	40145
hard: colour ivory	70 g	tin	1	40146
medium-hard: colour dark blue	70 g	tin	1	40115
medium-hard: colour grey	70 g	tin	1	40147
medium-hard: colour ivory	70 g	tin	1	40148
2 Milling wax				
colour green	70 g	tin	1	40113
colour grey	70 g	tin	1	40119
3 Cervical wax				
colour eggplant	70 g	tin	1	40112



ScanWax / ScanBlock

- ScanWax for wax-ups with high opacity and hardness and ScanBlock with extremely high opacity ensure optimal data generation for precise prosthetic restorations using the CAD/CAM technique
- ScanBlock is particularly suitable for the shaping of very thin or complex wax-ups, and is also excellent for blocking out cavities on the stone die


Product details				
Availability	Contents	Presentation	Qty	REF
ScanWax colour dark-grey	70 g	tin	1	40151
ScanBlock colour sky-blue	70 g	tin	1	40152



- 1 Dipping wax
- 2 Dipping wax hard-elastic

- 1 For the fabrication of wax copings for the crown and bridge technique. Working temperature 70–75°C
- 2 The red BEGO hard-elastic dipping wax ensures a distinct, reproducible quality of coping. The viscosity remains constant even if the wax is kept at stand-by temperature for a long time, and thus enables targeted control of the coping thickness. Only contains organic components

Product details				
Availability	Contents	Presentation	Qty	REF
1 Dipping wax colour green	150 g	pack	1	40009
2 Dipping wax hard-elastic colour red	70 g	tin	1	40155



Adapta deep-drawing system

- Simple and fast deep-drawing of copings
- Reasonably priced system which has been proven over many years with special plastic foils
- A uniform minimum wall thickness ensures a high level of stability in the copings
- Ideal for the double-crown technique; coated with milling wax, the Adapta coping offers a high level of protection against inadvertent milling through
- The thin 0.1 mm spacer foil, which is used as part of the system, frees up the necessary, defined space for the luting material

Product details				
Availability		Presentation	Qty	REF
Adapta deep drawing system comprising:		set	1	20500
1 Forming tub with Adapta mastic				
1 Spare pack Adapta mastic				
1 Foil holder				
100 Adapta foils, 0.6 mm in foil dispenser				
1 Pack, 100 Adapta foils, 0.6 mm				
200 Adapta foils, 0.1 mm red, in foil dispenser				
Adapta deep drawing system intro set comprising:		set	1	20520
1 Forming tub with Adapta mastic				
1 Foil holder				
50 Adapta foils, 0.6 mm				
50 Spacer foils, 0.1 mm				
Accessories	Contents	Presentation	Qty	REF
Adapta mastic (spare pack)		pack	1	20503
Forming tub with Adapta mastic, 1 Forming tub		piece	1	20504
Adapta foil holder		piece	1	20510
Adapta foil dispenser incl. 100 x 0.6 mm				20519
Adapta foil dispenser incl. 200 x 0.1 mm				20521
Adapta Spacer foils, 0.1 mm transparent	200 pcs.	pack	1	20517
Adapta Spacer foils 0.1 mm red	200 pcs.	pack	1	20502
Adapta foils 0.6 mm, transparent	100 pcs.	pack	1	20501



Rapidi modelling knife

- The Rapidi modelling knife is ideal for cutting, scraping and modelling
- Easy-to-change blade

Product details				
Availability	Contents	Presentation	Qty	REF
Rapidi modelling knife		piece	1	52270
Rapidi spare blades	40 pieces	set	1	52280



BEGO modelling wax for prosthetics

- Sheets of pink standard wax for wax-ups of bases for full or partial dentures, partial denture saddles and occlusal registrations
- Easily shaped and modelled with minimal contraction
- Ideal strength for secure attachment of acrylic teeth
- Solidification point of approx. 59°C guarantees stable try-ins and enables use as a modelling wax in the acrylic casting technique

Product details				
Availability	Contents	Presentation	Qty	REF
BEGO modelling wax, colour: pink, thickness 1.5 mm	500 g	pack	1	40001
BEGO modelling wax, colour: pink, thickness 1.5 mm	2.5 kg	pack	1	40007



Isocera Separating liquid for the crown and bridge technique

- Isocera separates wax from the plaster model very effectively
- Highly suitable for insulating plaster dies when copings are created using the wax dipping technique

Product details				
Availability	Contents	Presentation	Qty	REF
Isocera	200 ml	bottle	1	52705



Aurofilm Wetting agent for investment and releasing the surface tension of silicone duplicating moulds

- Reliable preparation agent for investment in CoCr as well as crown and bridge work
- Aurofilm eliminates the water-repellent effects of the wax pattern ensuring smooth casting surfaces
- Aurofilm is also used successfully in the silicone duplication technique to reduce surface tension

Product details				
Availability	Contents	Presentation	Qty	REF
Aurofilm	1 litre	bottle	1	52015
Aurofilm (spray bottle – for refilling)	100 ml	bottle	1	52019





WiroFine

Universal investment material for all indications in the partial denture and combination technique, for gel or silicone duplication

- Can be heated rapidly or conventionally to 1050°C with ideal expansion values, offers the level of flexibility essential for the modern dental laboratory
- Rapid preheating up to 1000°C: Insertion temperature = final temperature – means a time saving of 20% - 30% in comparison with investment materials which have to be heated up from 600°C
- Ideal flow properties make for reliable, fatigue-free working, since even the finest areas are precisely reproduced
- The precision of the duplicate models, along with high edge strength, makes for an optimal accuracy of fit without time-consuming finishing – ideal for combination work
- Can be used for all shapes of mould and wax-up geometries: System-independent whilst ensuring reliable, efficient processing
- Excellent deflasking properties thanks to the minimal reaction between the investment material and the alloy. The advantage for you: Time saving and economical use of blasting materials (Korox® 110 µm, REF 46044, page 92)
- Good model surfaces also when duplicating with gel – no hardening necessary for silicone duplication, which means freedom in the selection of a duplicating method.
 - for cost effectiveness in gel duplication (Wirogel® M, REF 54351, page 17)
 - for precision and time saving in silicone duplication (Wirosil®, REF 52000, page 19)
- Reliable expansion control for excellent fit results thanks to the special liquid BegoSol® K
- System components for one-piece casting. The combination with WiroOneplus and Wirobond® 280 facilitates the casting of perfectly fitting, solder- and adhesive-free combined restorations



Product details

Physical data

Mixing liquid	BegoSol® K / BegoSol® (BegoSol® Anti-freeze optimization up to -10 °C)
Processing time at 20 °C	approx. 3 minutes 30 seconds
Shelf life in unopened bag	24 months

Characteristic values of the material according to DIN EN ISO 15912

Beginning of solidification (Vicat time)	6 minutes
Compressive strength [MPa]	11
Linear thermal expansion [%]	0.8

Availability	Contents	Presentation	Qty	REF
WiroFine, 45 piece 400 g bags	18 kg	carton	1	54345
WiroFine, 15 piece 400 g bags	6 kg	carton	1	54344
WiroFine, 30 piece 200 g bags	6 kg	carton	1	54348

The packs do not contain any mixing liquid.

Accessories

Accessories	Contents	Presentation	Qty	REF
BegoSol® K mixing liquid*, 1 bottle	1 litre	bottle	1	51120
BegoSol® K mixing liquid*, 1 canister	5 litre	canister	1	51121
BegoSol® mixing liquid**, 1 bottle	1 litre	bottle	1	51090
BegoSol® mixing liquid**, 1 canister	5 litre	canister	1	51091

A detailed brochure can be found at www.bego.com/download-center.

DIN EN ISO 15912

* BegoSol® K is sensitive to freezing . ** BegoSol® (with freeze protection) only suitable for conventional preheating

INVESTING

For investing wax-ups, BEGO offers you a whole range of innovative investment materials with a proven track record. Bellavest® SH, Wirovest® and WiroFine are well-known branded products. Mixing liquids specially formulated for use with the particular type of investment material regulate the expansion reliably and ensure excellent casting results.

Guaranteed 24-month shelf life in the sealed sachet ensures reproducible quality over a long period of time.



Wironit® and Wironium® group alloys (59 onwards)
 Optimally matched system components mean clear handling, processing reliability with high-quality expert results

Non precious metal alloy

Wirovest®

Standard investment material for the partial denture technique

- Classic phosphate-bonded partial denture investment material with particularly good results in the gel-duplication technique
- High expansion for accuracy of fit and minimal finishing
- Smooth model surfaces facilitate modelling and ensure equally smooth cast surfaces
- When mixed with water (for pouring the cylinder), Wirovest® exhibits a significantly reduced deflasking hardness – this saves time and money
- BegoSol® mixing liquid (frost protected to -10°C) for assured procurement all year round



Product details				
Physical data				
Mixing liquid	BegoSol® (Anti-freeze optimization up to -10 °C)			
Processing time at 20 °C	approx. 3 minutes			
Shelf life in unopened bag	24 months			
Characteristic values of the material according to DIN EN ISO 15912				
Beginning of solidification (Vicat time)	5 minutes			
Compressive strength [MPa]	15			
Linear thermal expansion [%]	1.15			
Availability				
Wirovest®, 45 pieces 400 g bags	18 kg	carton	1	51046
Wirovest®, 15 pieces 400 g bags	6 kg	carton	1	51057
Wirovest®, 4 pieces 4,5 kg bags	18 kg	carton	1	51048
The packs do not contain any mixing liquid.				
Accessories				
BegoSol® mixing liquid	1 litre	bottle	1	51090
BegoSol® mixing liquid	5 litres	canister	1	51091

DIN EN ISO 15912



Wironit® and Wironium® group alloys (59 onwards)
 Optimally matched system components mean clear handling, processing reliability with high-quality expert results

Non precious metal alloy

Wirovest®plus

Enhanced version of Wirovest® partial denture investment material

- Wirovest®plus offers the benefits of extended working time and universal suitability for duplication within all conceivable areas of indication
- Wirovest®plus is a partial denture investment material which achieves excellent accuracy of fit with a wide range of duplication techniques and working parameters
- Extended working time enables fabrication of several models and moulds in a single working step, thus saving time
- Very smooth surfaces ensure equally smooth casting results
- Precise duplicate models with high edge strength make for easy modelling and exactly fitting castings, without the need for time-consuming finishing
- The good deflasking properties reduce the effort required in deflasking and simplify the cleaning of the cast object
- Qualified for conventional casting of plotted CAD/Cast-frames
- BegoSol® Mixing liquid for simple expansion control



Product details				
Physical data				
Mixing liquid	BegoSol® (Anti-freeze optimization up to -10 °C)			
Processing time at 20 °C	3 minutes 15 seconds			
Shelf life in unopened bag	24 months			
Characteristic values of the material according to DIN EN ISO 15912				
Beginning of solidification (Vicat time)	approx. 6 minutes			
Compressive strength [MPa]	15			
Linear thermal expansion [%]	1.15			
Availability				
Wirovest®plus, 45 pieces 400 g bags	18 kg	carton	1	54821
Wirovest®plus, 15 pieces 400 g bags	6 kg	carton	1	54822
The packs do not contain any mixing liquid.				
Accessories				
BegoSol® mixing liquid, 1 bottle = 1 l	1 litre	bottle	1	51090
BegoSol® mixing liquid, 1 canister = 5 l	5 litres	canister	1	51091

DIN EN ISO 15912



Wironit® and Wironium® group alloys (59 onwards)
 Optimally matched system components mean clear handling, processing reliability with high-quality expert results

Non precious metal alloy

WiroFast

Partial denture investment material suitable for shock heating

- WiroFast is the phosphate-bonded partial denture investment material developed specifically to offer both homogeneous duplication properties in gel and optimal suitability for shock heating
- The mould is inserted directly into the furnace, which is pre-heated to 900°C, only 10 mins after investing, which represents a considerable reduction in the duration of the heating process
- Optimal duplication properties in gel for very smooth model surfaces – duplication in silicone is also possible
- Excellent flow properties facilitate fatigue-free working – even on slender model parts
- Ideal deflasking properties shorten the deflasking process and reduce the necessary use of blasting materials
- Excellent accuracy of fit and smooth cast objects ensure little effort is expended on adjustments to the cast
- Suitability for both shock heat and conventional heating processes offers the flexibility required for day-to-day work in the laboratory
- As a mixing liquid, BegoSol® ensures economical processing all year round



Product details				
Physical data				
Mixing liquid	BegoSol® (Anti-freeze optimization up to -10 °C)			
Processing time at 20 °C	approx. 3 minutes			
Characteristic values of the material according to DIN EN ISO 15912				
Beginning of solidification (Vicat time)	approx. 5 minutes			
Compressive strength [MPa] (after 2 hours)	approx. 11.9			
Linear thermal expansion [%]	approx. 0.8			
Flowability [mm]	approx. 141			
Availability				
WiroFast, 45 pieces 400 g bags	18 kg	carton	1	54834
WiroFast, 15 pieces 400 g bags	6 kg	carton	1	54835
Test Kit				54839
Accessories				
BegoSol® mixing liquid	1 litre	bottle	1	51090
BegoSol® mixing liquid	5 litres	canister	1	51091

Wiroplus® S Precision partial denture investment material for the silicone duplication technique

- Long working time for perfect filling– even with the finest details – makes for reliable processing
- The high edge strength makes for stable, precise modelling
- Very smooth duplicate models and equally smooth cast surfaces ensure impressive accuracy of fit and minimise the finishing required
- Optimal expansion parameters mean a reproducible accuracy of fit plus considerable time savings, especially on milled surfaces
- Very good deflasking properties save time and reduce material consumption
- Reliable expansion control for excellent fit results with BegoSol® mixing liquid



Product details	
Physical data	
Mixing liquid	BegoSol® (Anti-freeze optimization up to -10 °C)
Processing time at 20 °C	approx. 4 minutes
Shelf life in unopened bag	24 months
Characteristic values of the material according to DIN EN ISO 15912	
Beginning of solidification (Vicat time)	5.5 minutes
Compressive strength [MPa]	18
Linear thermal expansion [%]	1.2
Availability	
1 carton, 18 kg = 45 pieces 400 g bags	50248
1 carton, 6 kg = 15 pieces 400 g bags	54353
The packs do not contain any mixing liquid.	
Accessories	
BegoSol® mixing liquid, 1 bottle = 1 l	51090
BegoSol® mixing liquid, 1 canister = 5 l	51091

A detailed brochure can be found at www.bego.com/download-center.

DIN EN ISO 15912

WiroOne^{plus} double crowns and partial dentures in the BEGO one-piece casting technique, simple, effective and economical

- WiroOne^{plus} has been specially developed for the dies on duplicated models. It is used in combination with the tried and tested WiroFine partial denture investment material and, with its optimal working parameters, it allows effective and economical fabrication of a combined restoration using the one-piece casting technique.
- Fine, creamy consistency for smooth cast surfaces and a significant reduction in the amount of finishing required
 - A working time of approx. 5 mins enables effortless filling of even the finest model parts
 - Exact expansion control with special liquid ensures reproducible accuracy of fit
 - The elimination of soldering saves time, reduces material consumption and optimises biocompatibility
 - High-quality, space-saving restorations with a slender design for all-round patient satisfaction



Product details		
Physical data		
Processing time at 20 °C	approx. 5 min.	approx. 4.5 min.
Total expansion [%]	1.7	2.2
Shelf life in unopened bag	24 months	24 months
Characteristic values of the material according to DIN EN ISO 15912		
Beginning of solidification (Vicat time)	approx. 10.5 minutes	approx. 10 min.
Compressive strength [MPa] (after 2 hours)	4.2	5.1
Linear thermal expansion [%]	0.8	0.9
Availability		
1 carton, 5 kg = 50 pieces 100 g bags without liquid		54823
Accessories		
WiroOne-Liquid, 1 bottle = 1 l		54824
Measuring cylinder 25 ml		18073
Measuring cylinder 50 ml		18074
Test Kit		54829

Bellavest® SH

Shock heat – rapidly or conventionally heatable precision casting investment material for crowns and bridges – also those made from pressable or press-to-metal ceramics

- The precision crown and bridge investment material Bellavest® SH offers outstanding versatility and flexibility
- Appointments can be coordinated with ease because Bellavest® SH can either be preheated rapidly, with an insertion temperature of up to 900°C, or conventionally
- Phosphate-bonded precision casting investment material offers reliable, simple handling along with optimal parameters of use
- Simple to use with the special mixing liquid BegoSol® HE for maximum flexibility in conjunction with just a single liquid
- Precise expansion control and fine, creamy consistency for reliable processing and reproducible quality for a range of indications, from pressable ceramics to telescopic crowns made from non-precious alloys
- Long working time of 5 minutes enables reliable, fatigue-free working
- Extremely smooth cast surfaces make for a good accuracy of fit and time savings due to minimal finishing times
- Cures with a high edge-strength, yet still permits easy deflasking. For the user, this means time savings and economical use of blasting materials (Korox®, REF 46014, page 92)



Complementary product!



Wirobond® 280, Wiron® 99

Wirobond® 280 premium alloy

- REF 50134 (page 53)
- Easy preparation due to a low hardness, biocompatibility tested and certified

Wiron® 99 non-precious alloy

- REF 50225 (page 56)
- Biocompatible and proven worldwide for over 20 years

Product details

Physical data

Mixing liquid	BegoSol® HE
Processing time at 20 °C	approx. 4.5–5 minutes
Shelf life in unopened bag	24 months

Characteristic values of the material according to DIN EN ISO 15912

Beginning of solidification (Vicat time)	approx. 10 minutes
Compressive strength after 2 hours [MPa]	4.2–5.1
Linear thermal expansion [%]	0.85

Availability

	Contents	Presentation	Qty	REF
Bellavest® SH, 80 x 160 g bags	12.8 kg	carton	1	54252
Bellavest® SH, 30 x 160 g bags	4.8 kg	carton	1	54247
Bellavest® SH, 144 x 90 g bags	12.96 kg	carton	1	54257
Bellavest® SH, 50 x 100 g bags	5 kg	carton	1	70060

The packs do not contain any mixing liquid.

Accessories

	Contents	Presentation	Qty	REF
BegoSol® HE Mixing liquid*	1 litre	bottle	1	51095
BegoSol® HE Mixing liquid*	5 litres	canister	1	51096

A detailed brochure can be found at www.bego.com/download-center.

DIN EN ISO 15912

* BegoSol® HE is sensitive to freezing

Instructions for using Bellavest® SH:

Universal investment materials are characterised by adjustable expansion levels and resistance to temperature and pressure. Bellavest® SH combines all the requirements for crown and bridge work. This applies equally to precious-metal and non-precious alloys, and also includes pressable ceramics. With BegoSol® HE the desired expansion can be adjusted for every application and indication. This makes Bellavest® SH one of the world's leading crown and bridge investment materials. It is best to use Bellavest® SH and BegoSol® HE at a constant temperature of + 20°C and processing parameters, such as mixing time and mixing speed, should also be constantly maintained to ensure consistent.

Tips for application

- The higher the concentration of BegoSol®, the greater the expansion of the investment material
- Lowering the concentration reduces the level of expansion
- Uniform parameters of use are essential for achieving reproducible casting results

BellaStar XL

The premium investment material for crowns and bridges

- Extremely fine-grained with an excellent accuracy of fit
- Ideal for precious-metal alloys, but also well suited for non-precious alloys in many indications
- BellaStar XL is suitable for rapid or conventional heating, and the insertion temperature can be the same as the final temperature
- Thin-to-creamy consistency and optimal flow properties allow problem-free filling of even the finest model details
- Fine-grained raw materials make for extremely smooth and precise cast surfaces
- The casting mould can be fabricated with a fixed ring or without a ring, and the mould sizes can be freely selected
- Outstanding deflasking properties make it easier to remove the investment material This saves time and emphasises the balanced application properties
- BellaStar XL stands for flexibility and trusted, reliable and fatigue-free processing with superb precision
- Reliable expansion control for excellent fit results thanks to BegoSol® K special liquid

Product details				
Physical data				
Mixing liquid	BegoSol® K			
Processing time at 20 °C	approx. 3.5 minutes			
Shelf life in unopened bag	24 months			
Characteristic values of the material according to DIN EN ISO 15912				
Beginning of solidification (Vicat time)	7.5 minutes			
Compressive strength [MPa]	5.5			
Linear thermal expansion [%]	1.1			
Availability	Contents	Presentation	Qty	REF
BellaStar XL, 80 pieces 160 g bags	12.8 kg	carton	1	54362
BellaStar XL, 30 pieces 160 g bags	4.8 kg	carton	1	54361
The packs do not contain any mixing liquid.				
Accessories	Contents	Presentation	Qty	REF
BegoSol® K mixing liquid*	1 litre	bottle	1	51120
BegoSol® K mixing liquid*	5 litres	canister	1	51121
Complementary product				
Reliable processing in the system with the top BEGO alloys (page 6–8)				

Formulated for precious metal alloys



A detailed brochure can be found at www.bego.com/download-center.

DIN EN ISO 15912

* BegoSol® K is sensitive to freezing

Instructions on the use of BellaStar XL

For reproducible, reliable results, all working steps must be carried out under constant conditions. The working temperature and mixing conditions are of particular importance. Here it is absolutely essential that the recommended values are adhered to. We recommend a working temperature of +20°C for the investment material and the liquid. Parameters of use, such as the mixture intensity, should be kept constant. The type of mixing device and the volume of the mixing bowl are used consistently. Accordingly, either a 250 ml or 1,000 ml mixing bowl should be used consistently to mix 160 g of investment material. Strict adherence to pre-mixing times of at least 15 secs. ensures a consistent quality of the desired expansion parameters.

Bellavest® T The precision casting investment material for the crown and bridge technique

Bellasun The conventionally heatable crown and bridge investment material

- Standard investment material with a proven track record worldwide and high reliability in accuracy of fit and processing
- Bellavest® T is preheated using conventional methods only
- Creamy consistency for smooth castings with accuracy in every detail
- Working time of 5 minutes for reliable, fatigue-free investing
- BegoSol® ensures reliable expansion control; BegoSol® HE – as an alternative – enables higher expansion values
- Bellavest® T has, for many years, been synonymous with clear and simple handling and confidence in optimal results with great economy
- Bellasun is characterised by reliable processing, precision-fitting results and extra-long working time: at least 3 minutes at an ambient temperature of 30°C
- Excellent flow properties combined with a long working time make for fatigue-free and reliable investing in all crown and bridge indications
- BegoSol® allows reproducible expansion control and ensures excellent accuracy of fit with precious-metal and non-precious alloys
- Universal use of all shapes and sizes of mould and the low deflasking hardness round off the working characteristics
- Bellasun delivers exemplary quality even at unfavourable working temperatures



For precious and non-precious metal alloy



With the extra-long processing time, even at high ambient temperatures

Product details	
Physical data	
Mixing liquid	BegoSol® or BegoSol® HE
Processing time at 20 °C	approx. 5 minutes
Shelf life in unopened bag	24 months
Characteristic values of the material according to DIN EN ISO 15912	
Beginning of solidification (Vicat time)	9.5 minutes
Compressive strength [MPa]	10
Linear thermal expansion [%]	1.2
Availability	REF
1 carton, 12.8 kg = 80 pieces 160 g bags	54202
1 carton, 4.8 kg = 30 pieces 160 g bags	54201
1 carton, 12.96 kg = 144 pieces 90 g bags	54213
1 carton, 4.5 kg = 75 pieces 60 g bags	54209
The packs do not contain any mixing liquid.	
Accessories	REF
BegoSol® mixing liquid, 1 bottle = 1 l	51090
BegoSol® mixing liquid, 1 canister = 5 l	51091
BegoSol® HE Mixing liquid*, 1 bottle = 1 l	51095
BegoSol® HE Mixing liquid*, 1 bottle = 1 l	51096

DIN EN ISO 15912

* Alternatively, for greater expansions: BegoSol® HE mixing liquid BegoSol® HE is sensitive to freezing

Product details	
Physical data	
Mixing liquid	BegoSol® (Anti-freeze optimization up to -10 °C)
Processing time at 20 °C	approx. 7 minutes
Processing time bei 30 °C	approx. 4 minutes
Shelf life in unopened bag	24 months
Characteristic values of the material according to DIN EN ISO 15912	
Beginning of solidification (Vicat time)	13 minutes
Compressive strength [MPa]	7.5
Linear thermal expansion [%]	1.36
Availability	REF
1 carton, 12.8 kg = 80 pieces 160 g bags	54270
The packs do not contain any mixing liquid.	
Accessories	REF
BegoSol® mixing liquid, 1 bottle = 1 l	51090
BegoSol® mixing liquid, 1 canister = 5 l	51091

DIN EN ISO 15912

BegoForm® Refractory stump material for ceramic inlays, onlays and veneers

- The expansion properties of BegoForm®, which have been tailored for the ceramics from well-known manufacturers, enable an excellent accuracy of fit for individually layered inlays, onlays and veneers
- Stumps with an extremely high edge-strength and smooth, precise surfaces mean optimal conditions for problem-free processing of ceramic materials – avoiding undesirable cracks, for example
- The consistently high firing stability of BegoForm®, even after several cycles, enables ceramic corrections without any loss of precision
- Pleasant deflasking properties round off the clear and simple handling
- Reliable expansion control for excellent fit results thanks to the special BegoForm® mixing liquid

Product details

Scope of delivery	Contents	Presentation	Qty	REF
BegoForm®, 40 pieces 30 g bags with 1 metering syringe, 250 ml mixing liquid	1.2 kg	box	1	52785
Accessories	Contents	Presentation	Qty	REF
BegoForm® mixing liquid	250 ml	bottle	1	52786



Complementary product

Wirosil® - REF: 52000 (page 19)
 Wirosil® is an addition-curing two-component silicone, which reproduces duplicate models extremely precisely thanks to its high dimensional stability.



A detailed brochure can be found at www.bego.com/download-center.

BegoSol® and WiroOne Mixing liquids for BEGO investment materials

- Depending on the alloy and the field of application, the required mixing ratio can be created for these liquids using distilled or demineralised water
- The higher the concentration of the mixing liquid, the greater the expansion of the investment material

Product details

Availability	Contents	Presentation	Qty	REF
BegoSol® (Anti-freeze optimization up to -10 °C) Mixing liquid for Wirovest®plus, WiroFast, Wiroplus® S, Wirovest®, Bellavest® T and Bellasun	1 litre	bottle	1	51090
BegoSol®	5 litres	canister	1	51091
BegoSol® HE (frost-sensitive) Spezial-Mixing liquid for Bellavest® SH, Bellavest® T	1 litre	bottle	1	51095
BegoSol® HE	5 litres	canister	1	51096
BegoSol® K (frost-sensitive) Spezial-Mixing liquid for WiroFine, BellaStar XL	1 litre	bottle	1	51120
BegoSol® K	5 litres	canister	1	51121
WiroOne Liquid	1 litre	bottle	1	54824



Bellatherm® Phosphate-bonded soldering investment material

- Bellatherm® is dimensionally stable, thixotropic and suitable for high soldering temperatures
- Bellatherm® has extremely high edge-strength, enables an excellent accuracy of fit and can be separated from the soldered object under cold running water

Product details

Availability	Contents	Presentation	Qty	REF
Bellatherm®	4.5 kg	tin	1	51105



Wiropaint plus Fine investment material for partial denture technique

- It provides a very smooth casting surface and speeds up finishing work considerably
- Wiropaint plus hardly settles in the bottle and is always ready for use.

Product details

Availability	Contents	Presentation	Qty	REF
Wiropaint plus	200 ml	bottle	1	51100



Measuring cylinder

- Measuring cylinder with high precision (+/- 0.5 ml) for optimal control of the mixing concentrations

Product details


Availability	Contents	Presentation	Qty	REF
Measuring cylinder, high type	25 ml	piece	1	18073
Measuring cylinder, high type	50 ml	piece	1	18074
Universal measuring cup	100 ml	piece	1	14607




SecuPress Ring system

- For investing pressable ceramic restorations with Bellavest® SH, three different re-usable ring sizes are available. The markings facilitate optimal positioning and simplify the task of deflasking the restoration

Product details	
Availability	REF
SecuPress Ring system for 100 g investment / 2 g ingots 100 g/12 mm	70050
SecuPress Ring system for 200 g investment / 2 g ingots 200 g/12 mm	70051
SecuPress Ring system for 300 g investment / 2 g ingots 300 g/12 mm	70053




Complementary product	
Bellavest® SH precision investment · REF: 54252 (page 44) Bellavest® SH produces optimal press results. A phosphate-bonded precision investment for conventional and speed heating guarantees accurately fitting and reproducible press results. The 100 g portion bags in particular ensure compatibility with the SecuPress ring system.	



SecuPress Ring base

- Ring base for using 5 g or 16 mm ingots in combination with the 16 mm plungers. This enables the problem-free fabrication of long-span bridges that require a large quantity of ceramic


Product details	
Availability	REF
SecuPress Ring base 200 g/16 mm	70052
SecuPress Ring base 300 g/16 mm	70054



Single-use Plunger

- Single-use Plunger which does not require time-consuming cleaning after pressing, such as with AlO₂ plungers.


Product details	
Availability	REF
Single-use Plunger 2 g/ 20 pieces	70700
Single-use Plunger 5 g/ 20 pieces	70701



Rapid Ringless System Compatible with BEGO Rapid wax system

- For all BEGO crown and bridge investment materials
- Compatible with Rapid Wax System Minimal wear, thus lower costs than with comparable systems
- Universally applicable for many casting systems Easy separation of mould and mould ring
- Time savings in relation to mould systems with foil sleeve, iron ring, etc.

Product details			
Availability	Presentation	Qty	REF
Casting ring and base Size 1 x (Ø 37 mm / 1 1/4")	set	1	52665
Size 3 x (Ø 55 mm / 2")	set	1	52666
Size 6 x (Ø 72 mm / 2 1/2")	set	1	52667



Vacuum mixing bowl for Motova 100 and Motova 300

- Two versions of the tried and tested vacuum mixing bowl are available for use in Motova 100/300 due to the highly diverse properties of the mixture
- For reliably mixing investment material and plaster, the M version is used
- For thoroughly mixing silicone, the MS version is used


Product details			
Availability	Presentation	Qty	REF
For investment material and plaster			
• Vacuum mixing bowl M 250 ml Quantity of powder: 60 - 180 g	piece	1	16271
• Vacuum mixing bowl M 550 ml Quantity of powder 100 - 400 g	piece	1	16272
• Vacuum mixing bowl M 835 ml Quantity of powder 160 - 550 g	piece	1	16273
• Vacuum mixing bowl M 1200 ml Quantity of powder 320 - 800 g	piece	1	16274
For duplicating silicone			
• Vacuum mixing bowl MS 550 ml Filling quantity of silicone 50 - 250 g	piece	1	16275
• Vacuum mixing bowl MS 835 ml Filling quantity of silicone 100 - 375 g	piece	1	16276
• Vacuum mixing bowl MS 1200 ml Filling quantity of silicone 150 - 600 g	piece	1	16277



Base socket mould formers for crown and bridge work

- For making moulds with metal mould rings with hard rubber base plate


Product details				
Availability	Contents	Presentation	Qty	REF
with hard rubber base plate				
Size 3	4 pieces	set	1	52627
Size 6	4 pieces	set	1	52628
Size 9	4 pieces	set	1	52629



Metal mould rings for crown and bridge work

- Suitable for all BEGO crown and bridge investment materials
- Long service life thanks to special steel design


Product details				
Availability	Contents	Presentation	Qty	REF
Metal mould rings				
Size 3 – for 180 g of investment material	4 piece	set	1	52422
Size 6 – for 360 g of investment material	4 piece	set	1	52423
Size 9 – for 540 g of investment material	4 piece	set	1	52424



Fleecy inlay strips for moulds permit unimpeded expansion of the investment material

- The BEGO fleecy inlay strips for moulds contain no asbestos. They burn without residue and provide room for the investment material to expand
- The lining strips are the same height as the rings

Product details				
Availability	Contents	Presentation	Qty	REF
Fleecy inlay strips for moulds				
40 mm	3 x 30 m	pack	1	52409
45 mm	3 x 30 m	pack	1	52408




Funnel formers for partial denture technique

To be used when there is insufficient space for the other funnel former:

- 1 Universal funnel former for partial denture work. Matches all BEGO casting systems
- 2 Funnel former with reservoir for combination crucible
- 3 Funnel former, standard model. It is used when there is insufficient space for the other funnel former
- 4 Funnel former for Nautilus® and other casting systems


Product details				
Availability	Contents	Presentation	Qty	REF
1 Funnel formers	100 pieces	pack	1	52068
2 Funnel formers	10 pieces	pack	1	52075
3 Funnel formers	10 pieces	pack	1	52060
4 Funnel formers	10 pieces	pack	1	52066



BEGO mould formers

- Eliminates fixing and grinding of the investment models when the BEGO combination duplicating flask is used
- Both mould formers can also be used with all other duplicating systems


Product details				
Availability	Contents	Presentation	Qty	REF
Mould former, small, red	4 pieces	set	1	52390
Mould former, large, blue	4 pieces	set	1	52400



Combi duplicating flask for partial denture technique











- Combi duplicating flask
- The Combi duplicating flasks are designed for use with our mould rings

Product details			
Availability	Presentation	Qty	REF
1 Combi duplicating flask with wedge top, base and 2 base formers (2 sizes)	piece	1	52090



Overview of BEGO investment materials

Overview of BEGO investment materials: Indications and recommended liquid

	Crowns and bridges				Partial dentures					One-piece castings
	Bellavest® SH	Bellavest® T	BellaStar XL	Bellasun	WiroFine	WiroFast	Wiroplus® S	Wirovest®	Wirovest®plus	WiroOne ^{plus}
										
Casting non-precious alloys	✓✓✓	✓✓✓	✓✓	✓✓✓						✓✓
Double crowns in non-precious alloys	✓✓✓	✓✓***	✓	✓✓						✓✓✓
Casting precious alloys	✓✓	✓✓	✓✓✓	✓✓	✓	✓	✓✓	✓	✓	✓✓
Pressable ceramics	✓✓✓									
Implant prosthodontics	✓✓✓	✓✓	✓✓✓	✓						
CoCr partial-denture duplication with silicone	✓**	✓**	✓**	✓**	✓✓✓	✓✓	✓✓✓	✓✓	✓✓	✓✓*****
CoCr partial-denture hydrocolloid duplication					✓✓	✓✓✓		✓✓✓	✓✓✓	✓*****
Shock heat	✓✓✓		✓✓✓		✓✓✓	✓✓✓				
Conventional	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	
Working time* (20°C) [min]	5	5	3.3	7	3.3	3	4	3	3.15	5
Flowability [mm]	140 - 145	approx. 125	approx. 135	approx. 155	approx. 140	approx. 141	approx. 130	approx. 115	approx. 120	approx. 140
BegoSol®		✓		✓	✓****	✓	✓	✓	✓	
BegoSol® HE	✓	✓								
BegoSol® K			✓		✓					
WiroOne Liquid										✓

✓✓✓ optimal - ✓✓ recommended - ✓ suitable

* after mixing - ** lift-off procedure - *** with BegoSol HE - **** only conventional - ***** only in combination with WiroFine



NON-PRECIOUS ALLOYS

With non-precious alloys from BEGO you're always on the safe side. Millions of patients treated worldwide are best proof of this. For partial dentures and crowns and bridges, the BEGO range of alloys are optimised on the basis of decades of research and continuous innovation.

WIRONIUM® and Wironit®, Wiron® and Wirobond® are the names many people automatically think of when it comes to non-precious alloys. Their physical and biological properties are legendary.

Wirobond® 280

The non-precious premium alloy – nickel- and beryllium-free

- Wirobond® 280 is setting new standards in the non-precious metal-to-ceramic alloy segment because, with a Vickers hardness of 280 HV10, it can be finished to a particularly high standard
- Extremely corrosion resistant thanks to the optimal interaction of the indispensable elements chrome and molybdenum
- Very good melting and casting properties
- No prolonged cooling necessary*, even with large spans
- Secure bonding with ceramics
- High strength irrespective of the span size, and therefore a wide range of indications
- Reliable processing in accordance with the proven BEGO system
- Biocompatibility examined by an independent institute and confirmed with a biocertificate



* Exceptions: Creation (Willi Geller), Reflex® (Wieland Dental + Technik GmbH & Co. KG)

Product details

Alloy characteristics	Standard values
Type (ISO 22674)	5
Density [g/cm ³]	8.5
Coefficient of thermal expansion [10 ⁻⁶ K ⁻¹] 25–500 °C	14.0
Coefficient of thermal expansion [10 ⁻⁶ K ⁻¹] 20–600 °C	14.2
Preheating temperature [°C]	900–1000
Casting temperature [°C]	approx. 1500
Melting range [°C]	1360–1400
Modulus of elasticity [GPa]	approx. 220
Elongation limit (R _{p0.2}) [MPa]	540
Tensile strength (R _m) [MPa]	680
Ductile yield (A _g) [%]	14
Vickers hardness (HV10)	280

Composition in % by mass

Co 60.2 · Cr 25 · W 6.2 · Mo 4.8 · Ga 2.9 · Si, Mn each < 1

Availability	Contents	Presentation	Qty	REF
Wirobond® 280	1000 g	pack	1	50134
Wirobond® 280	250 g	pack	1	50135
Accessories	Contents	Presentation	Qty	REF
Wiweld CoCr laser wire, carbon-free Ø 0.35 mm	2 m	pack	2 m	50003
Ø 0.5 mm	1.5 m	pack	1.5 m	50005
Wirobond® soldering rods before firing		pack	1	52622
WGL solder after firing		pack	1	61079

A detailed brochure, instructions for use and our biocertificate can be found at www.bego.com/download-center.

ISO 22674 · ISO 9693-1 · CE 0197



Bellavest® SH

Bellavest® SH precision investment

- REF 54252 (page 40)
- A universal investment for crowns and bridges and for pressable or press-on ceramic, speed or conventional heating, also suitable for telescope crowns fabricated using non-precious alloy

Wirobond® C Cobalt-chrome metal-to-ceramic alloy

- Nickel- and beryllium-free
- Simple processing thanks to reliable casting time recognition
- Carbon-free composition – particularly well suited for laser welding
- The element cerium ensures high bond strength with the ceramic, minimising the risk of subsequent flaking or chipping
- Low thermal conductivity – protects the pulp and ensures high wearing comfort for the patient
- Biocompatible and corrosion-resistant thanks to a firmly-adhering passive layer – biocompatibility verified by an independent institute



Product details				
Alloy characteristics		Standard values		
Type (ISO 22674)		4		
Density [g/cm ³]		8.5		
Coefficient of thermal expansion [10 ⁻⁶ K ⁻¹] 25–500 °C		14.0		
Coefficient of thermal expansion [10 ⁻⁶ K ⁻¹] 20–600 °C		14.2		
Preheating temperature [°C]		900–1000		
Casting temperature [°C]		approx. 1500		
Melting range [°C]		1370–1420		
Modulus of elasticity [GPa]		approx. 210		
Elongation limit (R _{p0.2}) [MPa]		480		
Tensile strength (R _m) [MPa]		720		
Ductile yield (A ₅) [%]		9		
Vickers hardness (HV10)		310		
Composition in % by mass				
Co 63.3 · Cr 24.8 · W 5.3 · Mo 5.1 · Si, Fe, Ce each < 1				
Availability	Contents	Presentation	Qty	REF
Wirobond® C	1000 g	pack	1	50115
Wirobond® C	250 g	pack	1	50116
Accessories	Contents	Presentation	Qty	REF
Wiroweld CoCr laser wire, carbon-free Ø 0.35 mm	2 m	pack	2 m	50003
Ø 0.5 mm	1.5 m	pack	1.5 m	50005
Wirobond® soldering rods		pack	1	52622
WGL solder		pack	1	61079

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Types acc. to ISO 22674

- Type 3: Indicated for fixed, multi-unit prosthetic restorations, e.g. bridgework.
 Type 4: Indicated for prosthetic restorations or sections thereof with thin cross-sections exposed to very high loads, e.g. removable partial dentures, clasps, veneered crowns, long-span bridgework or bridges with small cross-sections, bars, retainers, implant-supported superstructures.
 Type 5: Indicated for prosthetic restorations where parts thereof require a combination of high rigidity and strength, e.g. thin removable partial dentures, sections with thin cross-sections, clasps.

Wirobond® SG Cobalt-chrome metal-to-ceramic alloy

- Nickel- and beryllium-free
- Reliable use even in problematic cases and restorations with large bridge spans
- Simple and reliable casting time recognition thanks to optimal silicon content
- Normal cooling facilitates economical and effective working
- Reliable metal-ceramic bond with no need for an additional, expensive bonder
- Biocompatible and corrosion-resistant – biocompatibility verified by an independent institute



Product details	
Alloy characteristics	Standard values
Type (ISO 22674)*	4
Density [g/cm ³]	8.5
Coefficient of thermal expansion [10 ⁻⁶ K ⁻¹] 25–500 °C	14.1
Coefficient of thermal expansion [10 ⁻⁶ K ⁻¹] 20–600 °C	14.3
Preheating temperature [°C]	900–1000
Casting temperature [°C]	approx. 1480
Melting range [°C]	1370–1420
Modulus of elasticity [GPa]	approx. 200
Elongation limit (R _{p0.2}) [MPa]	470
Tensile strength (R _m) [MPa]	650
Ductile yield (A ₅) [%]	8
Vickers hardness (HV10)	310
Composition in % by mass	
Co 63.8 · Cr 24.8 · W 5.3 · Mo 5.1 · Si, Fe each < 1	
Availability	REF
Wirobond® SG, 1 pack = 1000 g	50128
Wirobond® SG, 1 pack = 250 g	50127
Accessories	REF
Wiroweld CoCr laser wire, carbon-free Ø 0.35 mm, 1 pack = 2 m	50003
Ø 0.5 mm, 1 pack = 1.5 m	50005
Wirobond® soldering rods, 1 pack	52622
WGL solder, 1 pack	61079

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Wirobond® LFC Special alloy for low-fusing ceramic materials

- Cobalt-chrome metal-to-ceramic alloy for high-expanding ceramics (low-fusing ceramic materials)
- The CTE value of 16.1 [10⁻⁶ x K⁻¹] enables normal cooling – for economical and effective working
- Strong bond with the low-fusing ceramic – even when subjected to multiple firing
- Controlled carbon content – very well suited for soldering and laser welding
- Biocompatible and corrosion-resistant – biocompatibility verified by an independent institute



Product details	
Alloy characteristics	Standard values
Type (ISO 22674)*	5
Density [g/cm ³]	8.2
Coefficient of thermal expansion [10 ⁻⁶ K ⁻¹] 25–500 °C	15.9
Coefficient of thermal expansion [10 ⁻⁶ K ⁻¹] 20–600 °C	16.1
Preheating temperature [°C]	900–1000
Casting temperature [°C]	approx. 1480
Melting range [°C]	1280–1350
Modulus of elasticity [GPa]	approx. 200
Elongation limit (R _{p0.2}) [MPa]	660
Tensile strength (R _m) [MPa]	950
Ductile yield (A ₅) [%]	16
Vickers hardness (HV10)	310
Composition in % by mass	
Co 33.9 · Cr 28.5 · Fe 30 · Mo 5 · Mn 1 · Si, N, C each < 1	
Availability	REF
Wirobond® LFC, 1 pack = 1000 g	50255
Wirobond® LFC, 1 pack = 250 g	50256
Accessories	REF
Wiroweld CoCr laser wire, carbon-free Ø 0.35 mm, 1 pack = 2 m	50003
Ø 0.5 mm, 1 pack = 1.5 m	50005
Wirobond® soldering rods, 1 pack	52622

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A detailed brochure, instructions for use and our biocertificate can be found at www.bego.com/download-center.

*The various types are shown on page 54

Wiron® 99

Premium NiCr alloy for metal-to-ceramic work or composite veneering – beryllium-free

- Proven reliability in use worldwide for over 20 years
- Secure metal-ceramic bond, minimising the risk of subsequent flaking or chipping
- Low hardness of 180 (HV10) – for easy, fast finishing and polishing to a high lustre
- Simple casting time recognition – problem-free processing in all induction casting machines
- High modulus of elasticity for greater protection against deformations caused by masticatory forces
- High wearing comfort for patients thanks to the low thermal conductivity
- Biocompatible and highly corrosion-resistant thanks to a firmly-adhering passive layer – biocompatibility verified by an independent institute



Product details				
Alloy characteristics	Standard values			
Type (ISO 22674)*	3			
Density [g/cm ³]	8.2			
Coefficient of thermal expansion [10 ⁻⁶ K ⁻¹] 25–500 °C	13.8			
Coefficient of thermal expansion [10 ⁻⁶ K ⁻¹] 20–600 °C	14.0			
Preheating temperature [°C]	900–1000			
Casting temperature [°C]	approx. 1450			
Melting range [°C]	1250–1310			
Modulus of elasticity [GPa]	approx. 200			
Elongation limit (R _{p0.2}) [MPa]	330			
Tensile strength (R _m) [MPa]	650			
Ductile yield (A ₅) [%]	45			
Vickers hardness (HV10)	180			
Composition in % by mass				
Ni 65 · Cr 22.5 · Mo 9.5 · Nb, Si, Fe, Ce each < 1				
Availability	Contents	Presentation	Qty	REF
Wiron® 99	1000 g	pack	1	50225
Wiron® 99	250 g	pack	1	50226
Accessories	Contents	Presentation	Qty	REF
Wiweld NC NiCr laser wire, free of carbon Ø 0.35 mm	approx. 5.5 m	roll	1	50006
Wiron® soldering rods		pack	1	52625
WGL solder		pack	1	61079

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*The various types are shown on page 54



Bellavest® SH

Bellavest® SH precision investment

- REF 54252 (page 40)
- A universal investment for crowns and bridges and for pressable or press-on ceramic, speed or conventional heating, also suitable for telescope crowns fabricated using non-precious alloy

Wiron® light

The non-precious alloy for metal-to-ceramic work, with light oxide – beryllium-free

- Simple casting, easy finishing, reliable working
- The outstanding melting properties of the alloy ensure reliable filling of the mould
- The oxide of Wiron® light is considerably lighter in colour in comparison to conventional NiCr alloys, and can be removed very quickly and easily
- The reduced preheating temperature of 800°C means that a very smooth surface of the cast object is achieved
- Normal cooling with many of the ceramics – for time-saving, economical veneering
- The favourable CTE value permits reliable ceramic veneering
- Biocompatible and highly corrosion-resistant thanks to a firmly-adhering passive layer – biocompatibility verified by an independent institute



Product details				
Alloy characteristics	Standard values			
Type (ISO 22674)*	4			
Density [g/cm ³]	8.2			
Coefficient of thermal expansion [10 ⁻⁶ K ⁻¹] 25–500 °C	13.8			
Coefficient of thermal expansion [10 ⁻⁶ K ⁻¹] 20–600 °C	14.1			
Preheating temperature [°C]	800			
Casting temperature [°C]	1350			
Melting range [°C]	1200–1280			
Modulus of elasticity [GPa]	aprox. 200			
Elongation limit (R _{p0.2}) [MPa]	470			
Tensile strength (R _m) [MPa]	880			
Ductile yield (A ₅) [%]	10			
Vickers hardness (HV10)	260			
Composition in % by mass				
Ni 64.5 · Cr 22.0 · Mo 10.0 · Si 2,1 · Nb, Mn, B each < 1				
Availability	Contents	Presentation	Qty	REF
Wiron® light	1000 g	pack	1	50270
Wiron® light	250 g	pack	1	50272
Accessories	Contents	Presentation	Qty	REF
Wiweld NC NiCr laser wire, free of carbon	approx. 5.5 m	roll	1	50006
Wiron® soldering rods		pack	1	52625
WGL solder		pack	1	61079
Diapol Diamond polishing compound		pack	1	52305

A detailed brochure, instructions for use and our biocertificate can be found at www.bego.com/download-center.

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Wiron® light: To ensure that the ceramic bonds firmly to the metal, it is essential that the bonding surface is trimmed with sharp tungsten carbide cutters. The manufacturer's recommended speed must be adhered to. Following this, the surface must be sandblasted with an abrasive of predefined grit size, such as Korox® 250, at the recommended compressed air pressure of 3–4 bars. It is essential to clean the surface with a steam-cleaner, such as the Triton, or in boiling water.



Oxide colour after divesting with Wiron® light



Oxide colour after divesting with traditional NiCr alloy



Diapol

Diapol diamond polishing paste

- REF 52305 (page 101)
- Economical in use: approx. 3 mm of paste is sufficient for a 3-unit bridge

Wirocer plus
Nickel-chrome metal-to-ceramic alloy

- Tried and tested cobalt-chrome alloy from BEGO – inexpensive thanks to an optimised manufacturing process
- Low hardness – easy and time-saving finishing
- Normal cooling – for economical veneering
- High wearing comfort for the patient thanks to the low thermal conductivity
- Biocompatible and corrosion-resistant – biocompatibility verified by an independent institute

Product details				
Alloy characteristics		Standard values		
Type (ISO 22674)*		3		
Density [g/cm ³]		8.2		
Coefficient of thermal expansion [10 ⁻⁶ K ⁻¹] 25–500 °C		13.8		
Coefficient of thermal expansion [10 ⁻⁶ K ⁻¹] 20–600 °C		14,0		
Preheating temperature [°C]		900–950		
Casting temperature [°C]		1450		
Melting range [°C]		1320–1365		
Modulus of elasticity [GPa]		approx. 200		
Elongation limit (R _{p0.2}) [MPa]		340		
Tensile strength (R _m) [MPa]		620		
Ductile yield (A ₅) [%]		50		
Vickers hardness (HV10)		190		
Composition in % by mass				
Ni 65.2 · Cr 22.5 · Mo 9.5 · Nb, Si, Fe, Mn each < 1				
Availability	Contents	Presentation	Qty	REF
Wirocer plus	1000 g	pack	1	50080
Accessories	Contents			REF
Wiroweld NC NiCr laser wire, free of carbon, Ø 0.35 mm	5.5 m	roll	1	50006
Wiron® soldering rods		pack	1	52625
WGL solder		pack	1	61079



A detailed brochure, instructions for use and our biocertificate can be found at www.bego.com/download-center.

ISO 22674 · ISO 9693-1 · C € 0197

*The various types are shown on page 54

Use the helpful BEGO info-media in our download centre at www.bego.com/download-center

- Metal-ceramics brochure, REF 82092
- Partial denture brochure, REF 82068
- Books on partial dentures, see page 84
- Videos (CDs) on casting BEGO alloys using our casting machines Nautilus®, Fornax® and Fundor, REF 82987 at www.bego.com/videoclips

Wironit® LA
Specially developed for laser welding

- Wironit® LA – wide range of indications for reliable application in the partial denture and combination technique
- Controlled carbon content and the addition of tantalum ensure excellent laser welding properties even in extreme cases
- Low thermal conductivity means high wearing comfort for the patient
- Thanks to the ductile yield of 8%, clasps can be activated without any problem
- Biocompatible and corrosion-resistant – biocompatibility verified by an independent institute



Product details				
Alloy characteristics		Standard values		
Type (ISO 22674)*		5		
Density [g/cm ³]		8.2		
Preheating temperature [°C]		950–1050		
Casting temperature [°C]		approx. 1450		
Melting range [°C]		1300–1340		
Modulus of elasticity [GPa]		approx. 220		
Elongation limit (R _{p0.2}) [MPa]		640		
Tensile strength (R _m) [MPa]		940		
Ductile yield (A ₅) [%]		8		
Vickers hardness (HV10)		360		
Composition in % by mass				
Co 63.5 · Cr 29 · Mo 5 · Si 1.2 · Mn, N, C, Ta each < 1				
Availability	Contents	Presentation	Qty	REF
Wironit® LA	1000 g	pack	1	50100
Accessories	Contents	Presentation	Qty	REF
Wiroweld CoCr laser wire, carbon-free Ø 0.35 mm	approx. 5.5 m	roll	1	50006
Ø 0.35 mm	2 m	pack	1	50003
Ø 0.5 mm	1.5 m	pack	1	50005
Cobalt-chrome solder		pack	1	52520

A detailed brochure, instructions for use and our biocertificate can be found at www.bego.com/download-center.

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Wironit® LA: During wax-up, the casting funnel former must be positioned 10 mm above the highest point of the wax-up, to avoid the risk of defects in the cast object. BEGO partial denture courses at www.bego.com/fortbildung

*The various types are shown on page 54



Complementary product!



WiroFine universal investment

- REF 54345 (page 35)
- A universal investment for all indications in cast partial denture and fixed/ removable work, for gel or silicone duplication, speed or conventional heating

Maxillary partial denture base

WiroFine

Wironit® The classic partial denture alloy for clasp partial dentures

- Successful worldwide since 1953 – ideally suited for conventional clasp partial dentures
- The reduced Vickers hardness of 350 (HV10) allows easier finishing and polishing
- The clasps can be activated very easily by the dentist
- Biocompatible and corrosion-resistant – biocompatibility verified by an independent institute



Wironit® extra-hard The ideal partial denture alloy for combination work

- Due to its high elongation limit and tensile strength, this alloy is ideally suited for combination work
- Outstanding casting properties thanks to the special composition with silicon and carbon
- Very low thermal conductivity of the alloy emphasises the wearing comfort of the prosthesis
- Biocompatible and corrosion-resistant – biocompatibility verified by an independent institute



Product details	
Alloy characteristics	Standard values
Type (ISO 22674)*	5
Density [g/cm ³]	8.2
Preheating temperature [°C]	950–1050
Casting temperature [°C]	approx. 1460
Melting range [°C]	1320–1350
Modulus of elasticity [GPa]	approx. 211
Elongation limit (R _{p0.2}) [MPa]	600
Tensile strength (R _m) [MPa]	880
Ductile yield (A ₅) [%]	6.2
Vickers hardness (HV10)	350
Composition in % by mass	
Co 64 · Cr 28.6 · Mo 5 · Si 1 · Mn, C each < 1	
Availability	REF
Wironit®, 1 pack = 1000 g	50030
Wironit®, 1 pack = 250 g	50020
Accessories	REF
Wiroweld CoCr laser wire, carbon-free Ø 0.35 mm, 1 pack = 2 m	50003
Ø 0.5 mm, 1 pack = 1.5 m	50005
Cobalt-chrome solder, 1 pack	52520

ISO 22674 · C € 0197

A detailed brochure, instructions for use and our biocertificate can be found at www.bego.com/download-center.

Product details	
Alloy characteristics	Standard values
Type (ISO 22674)*	5
Density [g/cm ³]	8.2
Preheating temperature [°C]	950–1050
Casting temperature [°C]	approx. 1420
Melting range [°C]	1260–1305
Modulus of elasticity [GPa]	225
Elongation limit (R _{p0.2}) [MPa]	625
Tensile strength (R _m) [MPa]	910
Ductile yield (A ₅) [%]	4.1
Vickers hardness (HV10)	375
Composition in % by mass	
Co 63 · Cr 30 · Mo 5 · Si 1.1 · Mn, C jewels < 1	
Availability	REF
Wironit® extra-hard, 1 pack = 1000 g	50060
Wironit® extra-hard, 1 pack = 250 g	50050
Accessories	REF
Wiroweld CoCr laser wire, carbon-free Ø 0.35 mm, 1 pack = 2 m	50003
Ø 0.5 mm, 1 pack = 1.5 m	50005
Cobalt-chrome solder, 1 pack	52520

ISO 22674 · C € 0197

*The various types are shown on page 54

WIRONIUM® plus Cobalt-chrome partial denture alloy



Partial dentures par excellence

- Enhanced version of the top-quality alloy WIRONIUM® – can be used universally in the field of combination work and clasp partial dentures
- Problem-free processing using the BEGO partial denture system
- Very low thermal conductivity means high wearing comfort for the patient
- Increased elongation limit and high modulus of elasticity for high resistance to possible deformations caused by masticatory forces
- The high elongation limit minimises the danger of clasp fractures
- Controlled carbon content ensures excellent laser welding properties
- Biocompatible and corrosion-resistant – biocompatibility verified by an independent institute



Product details				
Alloy characteristics	Standard values			
Type (ISO 22674)*	5			
Density [g/cm ³]	8.4			
Preheating temperature [°C]	950–1050			
Casting temperature [°C]	approx. 1440			
Melting range [°C]	1310–1345			
Modulus of elasticity [GPa]	approx. 220			
Elongation limit (R _{p0.2}) [MPa]	700			
Tensile strength (R _m) [MPa]	1000			
Ductile yield (A ₅) [%]	10			
Vickers hardness (HV10)	340			
Composition in % by mass				
Co 62.5 · Cr 29.5 · Mo 5 · Si, Mn, Fe, Ta, N, C each < 1				
Availability	Contents	Presentation	Qty	REF
WIRONIUM® plus (is only supplied to I.W.C. laboratories)	1000 g	pack	1	50190
Accessories	Contents	Presentation	Qty	REF
Wiroweld CoCr laser wire, carbon-free Ø 0.35 mm	2 m	pack	1	50003
Ø 0.5 mm	1.5 m	pack	1	50005
Cobalt-chrome solder				52520

A detailed brochure, instructions for use and our biocertificate can be found at www.bego.com/download-center.

ISO 22674 · C € 0197

WIRONIUM® plus: With particularly slender partial denture constructions, inaccessible areas should be polished with a handpiece brush to prevent deformations and avoid material reduction at unplanned points on the cast object.

*The various types are shown on page 54




WiroFine universal investment

- REF 54345 (page 35)
- A universal investment for all indications in cast partial denture and fixed/ removable work, for gel or silicone duplication, speed or conventional heating

WIRONIUM® 
Cobalt-chrome partial denture alloy

- Top-quality alloy, proven worldwide – ideally suited for conventional clasp partial dentures
- Excellent flow properties – simple processing
- Particularly suitable for laser welding with Wiroweld welding wire thanks to the reduced carbon content
- Biocompatible and corrosion-resistant – biocompatibility verified by an independent institute



WIRONIUM® extra-hard 
Cobalt-chrome partial denture alloy

- Ideal when an alloy with higher strength and slightly lower ductile yield is required
- Very slender designs possible – for high patient comfort
- Reduced carbon content – particularly well suited for laser welding
- Biocompatible and corrosion-resistant – biocompatibility verified by an independent institute



Product details	
Alloy characteristics	Standard values
Type (ISO 22674)*	5
Density [g/cm ³]	8.4
Preheating temperature [°C]	950–1050
Casting temperature [°C]	approx. 1440
Melting range [°C]	1320–1340
Modulus of elasticity [GPa]	approx. 216
Elongation limit (R _{p0.2}) [MPa]	650
Tensile strength (R _m) [MPa]	940
Ductile yield (A ₅) [%]	12
Vickers hardness (HV10)	330
Composition in % by mass	
Co 63 · Cr 29.5 · Mo 5 · Si 1 · Mn, Fe, N, C each < 1	
Availability	REF
WIRONIUM®, 1 pack = 1000 g (is only supplied to I.W.C. laboratories)	50065
Accessories	REF
Wiroweld CoCr laser wire, carbon-free Ø 0.35 mm, 1 pack = 2 m	50003
Ø 0.5 mm, 1 pack = 1.5 m	50005
Cobalt-chrome solder, 1 pack	52520

ISO 22674 · C € 0197

Product details	
Alloy characteristics	Standard values
Type (ISO 22674)*	5
Density [g/cm ³]	8.4
Preheating temperature [°C]	950–1050
Casting temperature [°C]	approx. 1450
Melting range [°C]	1330–1350
Modulus of elasticity [GPa]	approx. 220
Elongation limit (R _{p0.2}) [MPa]	670
Tensile strength (R _m) [MPa]	970
Ductile yield (A ₅) [%]	7.5
Vickers hardness (HV10)	350
Composition in % by mass	
Co 61 · Cr 30 · Mo 5 · Mn 2 · Si, Fe, N, C each < 1	
Availability	REF
WIRONIUM® extrahart, 1 pack = 1000 g (is only supplied to I.W.C. laboratories)	50175
Accessories	REF
Wiroweld CoCr laser wire, carbon-free Ø 0.35 mm, 1 pack = 2 m	50003
Ø 0.5 mm, 1 pack = 1.5 m	50005
Cobalt-chrome solder, 1 pack	52520

ISO 22674 · C € 0197

*The various types are shown on page 54

I.W.C. – International WIRONIUM®-Circle 

- A symbol that generates confidence
- A worldwide mark of quality
- A quality association of leading dental laboratories

The philosophy

The INTERNATIONAL WIRONIUM® CIRCLE – or I.W.C. for short – is a worldwide association of leading dental laboratories, which all share a common aim: the production of first-class dental laboratory work using top-quality materials.

The alloys

WIRONIUM®, WIRONIUM® plus and WIRONIUM® extra-hard are cobalt-chrome alloys for all aspects of the partial denture technique.

Biocompatibility thanks to selected high-purity alloy components and deformation-resistant prosthetics, which can withstand even extreme masticatory loads. From the clinical viewpoint, the quality of the WIRONIUM® alloys is the basis of perfect solutions – in both technical and aesthetic terms – for an extremely wide variety of cases.



The system

The WIRONIUM® alloys are used in a specific and precisely coordinated material chain, in accordance with the successful BEGO partial denture system.

The advantage for you: partial dentures made from WIRONIUM® offers an impressively accurate fit even with slender design and give the patient the certainty of reliable function, wearing comfort and long service life.

The know-how

The I.W.C. quality symbol indicates to the dentist that your laboratory is constantly expanding its know-how and employs the latest materials and equipment.

Talmi Dental training metal

- Ideal golden-yellow training metal – for inexpensive training or demonstrations
- The mechanical values and working characteristics are comparable with those of a type 2 gold-casting alloy
- Easy to process – Talmi can be melted and cast using any casting machine
- Talmi is not intended for medical use and must not be used in the oral cavity

Product details				
Alloy characteristics	Standard values			
Density [g/cm ³]	8.8			
Preheating temperature [°C]	700			
Casting temperature [°C]	approx. 1200			
Melting range [°C]	860–1010			
Modulus of elasticity [GPa]	95			
Elongation limit (R _{p0.2}) [MPa]	250			
Ductile yield (A ₅) [%]	50			
Vickers hardness (HV5)	120			
Weichglühen [°C]	750			
10 min, then quenching in water at 20 °C				
Composition in % by mass				
Cu 87 · Sn 12 · Co 1				
Availability	Contents	Presentation	Qty	REF
Talmi	1 g	pack	1	50220
Accessories	Presentation	Qty	REF	
Talmi solder 700 °C	roll	1	50221	



Wironit® clasp wire

- Springy steel design for acrylic work and regulations

Product details

Composition in % by mass				
Fe 67 · Cr 19 · Ni 10 · Mo 4				
Availability	Contents	Presentation	Qty	REF
round, Ø 0.6 mm	40 m	roll	1	48220
round, Ø 0.7 mm	30 m	roll	1	48250
round, Ø 0.8 mm	20 m	roll	1	48280
round, Ø 0.9 mm	10 m	roll	1	48310
round, Ø 1.0 mm	10 m	roll	1	48340
half-round, 0.65 x 1.30 mm = 10 m	10 m	roll	1	48430
half-round, 0.75 x 1.50 mm = 10 m	10 m	roll	1	48460



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BEGO WiroFix Friction element for the combination technique

- Facilitates friction adjustment, especially in the case of non-precious double crown or bar constructions
- Wide range of indications: Double crowns, full and ring telescopes, bars, RS (channel shoulder attachment)
- Ideal in combination with one-piece casting constructions
- Strong retentive force combined with small size
- Friction can be adjusted to two different degrees
- Requires minimal space; can be shortened individually
- Extremely easy processing thanks to ceramic spacers
- Highly durable, but easily replaceable if necessary

Product details

Dimensions				
BEGO WiroFix friction element: bar height 3 mm, bar diameter 1 mm				
Availability	Presentation	Qty	REF	
BEGO-WiroFix, 1 starter set consisting of: 2 ceramic spacers, white, 2 auxiliary parts, yellow, acrylic, 2 friction elements, standard, red, acrylic, 2 friction elements, strong, orange, acrylic	set	1	52820	
BEGO-WiroFix, 1 laboratory pack consisting of: 6 ceramic spacers, white, acrylic, 6 auxiliary parts, yellow, acrylic, 6 friction elements, standard, red, acrylic	pack	1	52821	
Accessories	Contents	Presentation	Qty	REF
BEGO WiroFix friction elements, standard, red, acrylic	2 pieces	pack	1	52822
BEGO WiroFix friction elements, strong, orange, acrylic,	2 pieces	pack	1	52823
BEGO WiroFix ceramic spacer, white	2 pieces	pack	1	52824
BEGO-WiroFix accessories, yellow, plastic	2 pieces	pack	1	52825



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PREHEATING AND CASTING

Today, an optimum casting result is programmable, but it can also be achieved through individual know-how and substantial practical experience. BEGO supports the desired application by means of automatically controlled preheating with Miditherm and programmed casting with Nautilus®. Fornax® and Miditherm are ideal for individual procedures. At the same time, the BEGO system assists you – from model preparation right through to actual casting.

Nautilus® CC plus Intelligent casting with data interface

- Automatic casting for consistent, reproducible results every single time
- Casting point recognition ensures that the cast objects are filled at the temperature recommended by the alloy manufacturer
- High-performance induction heating guarantees short melting cycles, minimises oxidation and thus facilitates subsequent finishing
- Proven quality assurance: Nautilus® CC plus saves up to 1,000 casting logs
- Large colour touch display with intuitive menu navigation for convenient and easy operation
- Integrated power cooling enables more than 50 casts in a row, even with high ambient temperatures
- Integrated cooling saves water and helps to protect the environment
- Suitable for all commercially available precious-metal and non-precious alloys (excluding titanium)
- Compact dimensions and design give the new Nautilus® CC plus a very small footprint
- Eco mode switches off all unnecessary components in idle mode and reduces operating costs



Compressed air tank



Mould tongs



Nautilus® crucible

Complementary product!

- Nautilus® crucibles**
- REF 52488 (page 72)
 - corresponding crucible handles and crucible inserts

Product details

Technical data

Height	420 mm
Height with optical waveguide	650 mm
Width	600 mm
Depth	665 mm
Rated voltage	230 V, 50/60 Hz
Power at rated voltage of 230 V	16 A
Compressed air connection (Connection thread 1/4")	at least 5 bar (0.5 [MPa])
Air consumption	approx. 100 l/min
Weight	approx. 65 kg

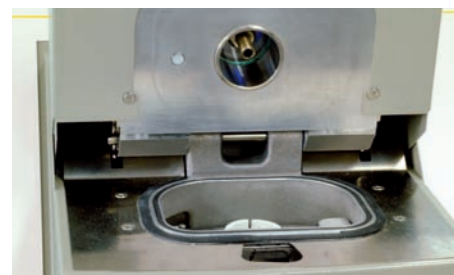
Scope of delivery

	Contents	Presentation	Qty	REF
Nautilus® CC plus, 230 V, 50/60 Hz		piece	1	26415
Ceramic crucibles (each made of 2 halves)	4 pieces	pack	1	52488
Plastic handles for ceramic crucibles	2 pieces	pack	1	52436
Ceramic handles for ceramic crucibles	2 pieces	pack	1	52467
Graphite ingots	2 pieces	pack	1	
Glass carbon cylinder		pack	1	
Forceps		piece	1	30002
Mould holder plate, ceramic		piece	1	30259
Mould holder (ceramic) for sizes 1 and 9		piece	1	12257
Mould holder (ceramic) for sizes 3 and 6		piece	1	13362
Mould holder plate (metal grid) for partial denture (25 mm high)		piece	1	37618
Mould holder plate (metal grid) for partial denture (15 mm high)		piece	1	10073
Base socket mould formers, sizes 3, 6 and 9	1 piece each	pack	1	
Partial denture funnel former		piece	1	

Accessories

	Contents	Presentation	Qty	REF
Compressed air tank with wall bracket		piece	1	16260
Printer for casting logs (for previous version of unit)		pack	1	16267
Mould tongs, 55 cm long		piece	1	39754
Base socket mould formers, size 3	4 pieces	set	1	52627
Base socket mould formers, size 6	4 pieces	set	1	52628
Base socket mould formers, size 9	4 pieces	set	1	52629
Partial denture funnel formers	10 pieces	pack	1	52066
Wiromelt melting power (non-precious)	80 g	tin	1	52526
Auromelt HF melting powder	65 g	dispenser	1	52525

A detailed brochure can be found at www.bego.com/download-center.



Nautilus® CC plus

The Nautilus® casting crucible principle enables the liquidus temperature to be exceeded by less than with other casting systems because the melt flows from the hot region of the crucible directly into the casting mould below.



With the BEGO vacuum pressure casting method, the alloy quantity can be limited to the volume of the cast object, including the feed sprues and connecting channels plus reservoir. As a rule, no casting cone is required.

Nautilus® T

Compact, benchtop vacuum pressure-casting machine with integrated power cooling and high-performance induction heating

- High-performance induction heating guarantees short melting cycles, minimises oxidation and thus facilitates subsequent finishing
- Large touch display with intuitive menu navigation for convenient and easy operation
- Integrated power cooling enables more than 50 casts in a row, even with high ambient temperatures
- Integrated cooling saves water and helps to protect the environment
- Compact dimensions and design give the new Nautilus® T a very small footprint
- Suitable for all commercially available precious-metal and non-precious alloys (excluding titanium)
- Eco mode switches off all unnecessary components in idle mode and reduces operating costs



With integrated power cooling and eco mode



Compressed air tank



Mould tongs



Nautilus® crucible

Complementary product!

- Nautilus® crucibles**
- REF 52488 (page 72)
 - corresponding crucible handles and crucible inserts

Product details

Technical data

Height	420 mm
Height with cover open	520 mm
Width	600 mm
Depth	665 mm
Rated voltage	230 V, 50/60 Hz
Power at rated voltage of 230 V	16 A
Compressed air connection (Connection thread 1/4")	at least 5 bar (0.5 [MPa])
Air consumption	approx. 100 l/min
Weight	approx. 65 kg

Scope of delivery

	Contents	Presentation	Qty	REF
Nautilus® T, 230 V, 50/60 Hz		piece	1	26420
Ceramic crucibles (each made of 2 halves)	4 pieces	pack	1	52488
Plastic handles for ceramic crucibles	2 pieces	pack	1	52436
Ceramic handles for ceramic crucibles	2 pieces	pack	1	52467
Graphite ingots	2 pieces	pack	1	
Glass carbon cylinder		pack	1	
Forceps		piece	1	30002
Mould holder plate, ceramic		piece	1	30259
Mould holder (ceramic) for sizes 1 and 9		piece	1	12257
Mould holder (ceramic) for sizes 3 and 6		piece	1	13362
Mould holder plate (metal grid) for partial denture (25 mm high)		piece	1	37618
Mould holder plate (metal grid) for partial denture (15 mm high)		piece	1	10073
Base socket mould formers, sizes 3, 6 and 9	1 piece each	pack	1	
Partial denture funnel former		piece	1	

Accessories

	Contents	Presentation	Qty	REF
Compressed air tank with wall bracket				16260
Mould tongs, 55 cm long			1	39754
Base socket mould formers, size 3	4 pieces	set	1	52627
Base socket mould formers, size 6	4 pieces	set	1	52628
Base socket mould formers, size 9	4 pieces	set	1	52629
Partial denture funnel formers	10 pieces	pack	1	52066
Wiromelt melting power (non-precious)	80 g	tin	1	52526
Auromelt HF melting powder	65 g	dispenser	1	52525

A detailed brochure can be found at www.bego.com/download-center.

Termico Cooling water circulation unit

- for all previous models of the Nautilus® and Fornax® units without an integrated cooling system

Product details

Technical data

Height	450 mm
Width	390 mm
Depth	490 mm
Power at rated voltage of 230 V, 50/60 Hz	0.3 kW
Weight empty/filled with 30 l	approx. 15/45 kg
Availability	Presentation Qty REF
Termico Cooling water circulation unit	piece 1 26230



Fornax® T

The compact casting machine with induction melting device and integrated power cooling

- Compact benchtop casting machine with very high-performance induction heating guarantees short melting cycles, minimises oxidation and thus facilitates subsequent finishing
- Compact dimensions and design give the new Fornax® T a very small footprint
- Integrated power cooling enables more than 50 casts in a row, even with high ambient temperatures
- High output reserves with low power consumption of just 16 amps
- Casting temperature of up to 1550°C: ideal for all commercially available dental alloys (except titanium)
- The user-friendly operating panel provides information on all parameters and gives quick and easy access to all major functions
- Very quick adjustment to different casting mould sizes by means of a simple mechanism ensures fast working



New: Now with integrated power cooling

Product details					
Technical data					
Height	450 mm				
Height with cover open	965 mm				
Width	650 mm				
Depth	625 mm				
Depth with cover open	640 mm				
Rated voltage	230 V, 50/60 Hz				
Special voltage	200–240 V, 50/60 HZ				
Current consumption	approx. 16 A				
Induction melting power	3.6 kVA, 65 kHz				
Weight	80 kg				
Scope of delivery					
Fornax® T 230 V, 50/60 Hz	Contents	Presentation	Qty	REF	
Ceramic melting crucible	6 pieces	pack	1	52482	
Graphite inserts	6 pieces	pack	1	52454	
Ceramic inserts for ceramic melting crucible	6 pieces	pack	1	52455	
Base socket mould former size 3, 6 and 9	1 piece each	pack	1		
Accessories					
Base socket mould formers, size 3	4 pieces	set	1	52627	
Base socket mould formers, size 6	4 pieces	set	1	52628	
Base socket mould formers, size 9	4 pieces	set	1	52629	
Mould tongs, 64 cm long		piece	1	11599	
Mould tongs, 55 cm long		piece	1	39754	
Fornax® service box for 4 crucibles and 1 set of tongs		piece	1	25337	
Wiromelt melting power (non-precious)	80 g	tin	1	52526	
Auromelt HF melting powder	65 g	dispenser	1	52525	

A detailed brochure can be found at www.bego.com/download-center.



Complementary product!



- Fornax® crucible**
- REF 52482 (page 74)
 - and crucible inserts

Fornax® crucible

Miditherm 100/200 MP

Microprocessor-controlled preheating furnaces for crowns, bridges and partial dentures

- The right preheating furnace in the right size for every requirement
- Monitoring of the temperature using a microprocessor in combination with a precision thermocouple ensures that there are no miscasts due to the casting rings being at the incorrect temperature
- Four-zone heating, with a max. temperature of 1,100 °C, guarantees uniform heating of the casting rings and consistent results during casting
- The heating elements are embedded in robust industrial ceramic – for increased reliability and a long service life
- Maximum capacity of the mould chamber:
 - 100 MP: 9 x size 3 mould
4 x BEGO large mould former, blue
 - 200 MP: 32 x size 3 mould
9 x BEGO large mould former, blue
- Flexible programming with 4 programmable holding stages per programme, infinitely variable selection of the heat rate from 1-9 °C/Min and 1 speed programme reliably covers all applications in CrCo and crown and bridge work



Product details					
Technical data					
Height	Miditherm 100 MP	Miditherm 200 MP	Regulus		
Width	480 mm	600 mm	570 mm		
Depth	350 mm	470 mm	125 mm		
Mould chamber Height	420 mm	550 mm	110 mm		
Mould chamber Width	95 mm	100 mm			
Mould chamber Depth	150 mm	200 mm			
Rated voltage	180 mm	250 mm			
Power at rated voltage of 230 V	200–240 V, 50/60 Hz	200–240 V, 50/60 Hz	220–240 V, 50/60 Hz		
Temperature	1,600 W	2,700 W			
Weight	max. 1,100 °C	max. 1,100 °C			
Availability	approx. 28 kg	approx. 56 kg	2.8 kg		
Availability					
Miditherm 100 MP with ceramic base plate			Presentation	Qty	REF
Miditherm 200 MP with ceramic base plate			piece	1	26150
Accessories					
Ceramic base plate for Miditherm 100			piece	1	34954
Ceramic base plate for Miditherm 200			piece	1	13984
Thermocouple for Miditherm 100/200		2 pieces	pack	1	14087
Extraction pipe for Miditherm 100/200, short			piece	1	35544
Spare heating mould for Miditherm 100			piece	1	34956
Spare heating mould for Miditherm 200			piece	1	13985
Regulus furnace extraction system			piece	1	25750

A detailed brochure can be found at www.bego.com/download-center.



Miditherm 100 MP




Regulus furnace extraction system



Nautilus® FC ceramic crucible made from an innovative special ceramic


- The design of the Nautilus® FC ceramic crucible is protected as a three-dimensional mark
- The crucible is composed of the innovative development of a high-temperature-resistant special ceramic, which offers many advantages over conventional crucible ceramics
- The extremely homogeneous structure of the ceramic contributes to its consistently reproducible accuracy of fabrication
- Extraordinarily smooth ceramic surfaces facilitate the discharge of the melt
- The high thermal shock resistance guarantees the long useful life of the Nautilus® FC ceramic crucible

Product details				
Availability	Contents	Presentation	Qty	REF
Nautilus® FC ceramic crucible	4 pieces	pack	1	52488




Plastic handles for Nautilus® ceramic crucibles

Product details				
Availability	Contents	Presentation	Qty	REF
Plastic handles for Nautilus® ceramic melting crucibles, exclusively for use in the casting of partial denture- and non-precious alloys.	2 pieces	pack	1	52436



Ceramic handles for Nautilus® ceramic crucibles


Product details				
Availability	Contents	Presentation	Qty	REF
Ceramic handles for Nautilus® ceramic melting crucibles, especially if using graphit- or glass carbon cylinder. Can also be used for the casting of partial denture- and non-precious alloys.	2 pieces	pack	1	52467



Graphite ingot for Nautilus® ceramic crucibles

- For Nautilus® T/CC/CC plus


Product details				
Availability	Contents	Presentation	Qty	REF
Graphite ingot	6 pieces	pack	1	52468



Glass carbon cylinder for Nautilus® ceramic crucibles

- For Nautilus® T/CC/CC plus
- For melting precious-metal alloys, including those with a high palladium content

Product details				
Availability	Contents	Presentation	Qty	REF
Glass carbon cylinder	4 pieces	pack	1	52473



BEGO ceramic crucibles for Fornax® and Nautilus®

With the BEGO ceramic crucibles for Fornax® and Nautilus® BEGO is setting the most exacting standards. An innovative method of manufacture for high-temperature-resistant crucibles, developed in scientific collaboration, permits:



- an extremely homogeneous material structure
- consistently reproducible accuracy of fabrication
- extraordinarily smooth ceramic surface, which facilitates discharge of the melt
- high thermal shock resistance, which ensures a long useful life
- The new material is even resilient enough to withstand aggressive alloys

When calculating the cost per casting, the useful life of the crucible must be taken into account in addition to its purchase price. The BEGO ceramic crucibles for Fornax® and Nautilus® set a new benchmark for cost-efficient casting. To make sure that you only purchase genuine BEGO crucibles, check that they have an extremely smooth surface and bear the engraved BEGO logo.

Fornax® FC ceramic crucibles made from special ceramic


- With the BEGO ceramic crucible for Fornax®, BEGO is setting the most exacting standards.
- An innovative method of manufacture for high-temperature-resistant crucibles, developed in scientific collaboration, permits an extremely homogeneous material structure which facilitates a consistently reproducible accuracy of fabrication
- An extraordinarily smooth surface on the inside of the ceramic crucible facilitates the discharge of the melt
- The high thermal shock resistance of the new material guarantees a long useful life
- The new material is even resilient enough to withstand aggressive alloys

Product details				
Availability	Contents	Presentation	Qty	REF
Fornax® FC ceramic crucible	6 pieces	pack	1	52482


Graphite inserts for Fornax® crucibles

Product details				
Availability	Contents	Presentation	Qty	REF
Graphite inserts	6 pieces	pack	1	52454



Ceramic inserts for Fornax® ceramic melting crucibles


Product details				
Availability	Contents	Presentation	Qty	REF
Ceramic inserts	6 pieces	pack	1	52455



Lolipot Crucible engobe for Fornax®- and Nautilus® ceramic melting crucibles

- This prolongs the life of the crucible and reduces casting residues in the melting crucible



Product details				
Availability	Contents	Presentation	Qty	REF
Lolipot (pressure pulverizer)	100 ml	bottle	1	52477



Ceramic crucibles for torche melting

- The melting crucibles are made of special ceramic material and have a long service life through a high heat change resistance



Product details				
Availability	Contents	Presentation	Qty	REF
Melting crucible, shallow trough, for cobalt-chrome partial denture alloys and non-precious alloys that can be used with Fundor, Fundor T, Castor and Pollux with double centrifugal arm	6 piece	pack	1	52426

Ceramic crucibles for torche melting

- The melting crucibles are made of special ceramic material and have a long service life through a high heat change resistance


Product details				
Availability	Contents	Presentation	Qty	REF
Melting crucible, deep trough, for precious-metal alloys that can be used with Fundor, Fundor T, Castor and Pollux with double centrifugal arm	6 pieces	pack	1	52425

Auromelt HF Melting powder

- Suitable for all melting processes of precious-metal and non-precious alloys
- It prevents oxide formation, even at low melting temperatures, and facilitates recognition of the correct moment for casting


Product details				
Availability	Contents	Presentation	Qty	REF
Auromelt HF (dispenser)	65 g	tin	1	52525



Wiromelt Melting powder

- For melting Wiron® and Wirobond® alloys in Nautilus® and other casting units
- Prevents the formation of oxide and facilitates the detection of the correct casting moment

Product details				
Availability	Contents	Presentation	Qty	REF
Wiromelt (dispenser)	80 g	tin	1	52526




VENEERING TECHNOLOGY

The reproduction of natural teeth poses a considerable challenge for any dental technician, since the aesthetics of a natural tooth are based on its layered inner structure and also its three-dimensional form. BeCe® Zirkon ceramic is ideal for expertly creating customised, all-ceramic objects quickly and economically. All 16 Vita shades can be reproduced in a very short time and with consistent quality.

BeCe® StainArt KIT ZIRKON

The StainArt Kit facilitates elegantly simple colouring of pressable and layered veneering ceramic as well as fully anatomical CAD/CAM restorations. Optimal application properties with clear-cut shade selection using the classic A-D shade system ensures accurate control of the desired basic shade. The range of shades is rounded off with a coordinated system of fluorescent stains for achieving customised colour effects and characterisations.

Indication

- Ceramics with a CTE in the range of 8.5 - 10.5 x 10⁻⁶ K⁻¹ (25–500°C)
- Temperature range of 780°C–840°C
- All-ceramic crowns and bridges made with BeCe® CAD Zirkon+ and BeCe® CAD Zirkon HT+
- Press-to-metal crowns and bridges made with BeCe® PRESS Z
- Schweiger's dentine core crowns made with BeCe® CAD Zirkon+ and BeCe® CAD Zirkon HT+
- All-ceramic crowns and bridges made with IPS e.max®



Product details				
Availability	Contents	Presentation	Qty	REF
BeCe® PRESS StainArt Kit ZIRKON		Kit	1	70057
Stain fluor. Powder Z Shade A	4 g			70555
Stain fluor. Powder Z Shade B	4 g			70556
Stain fluor. Powder Z Shade C	4 g			70557
Stain fluor. Powder Z Shade D	4 g			70558
Stain fluor. Powder orange	4 g			70511
Stain fluor. Powder pretty-brown	4 g			70513
Stain fluor. Powder white	4 g			70515
Stain fluor. Powder violet	4 g			70510
Stain fluor. Powder blue	4 g			70518
Stain fluor. Powder black	4 g			70514
Stain fluor. Powder full-orange	4 g			70512
Stain fluor. Powder sand	4 g			70516
Glaze Powder Z	3 g			70542
Liquid Stain/Glaze Z	25 ml			70172

Recommendation for use	
Stain	Indication
Stain fluor. Powder Z orange	Application preferably in the cervical or palatal regions, characterisation in the occlusal area, adjustment to changes in natural teeth caused by ageing
Stain fluor. Powder Z pretty-brown	For reproducing obvious 'age marks', such as discolourations and hairline cracks etc.
Stain fluor. Powder Z white	For lightening and reproducing enamel opacities etc.
Stain fluor. Powder Z violet	For increasing the translucent depth effect and for insertion in the interdental area
Stain fluor. Powder Z blue	For increasing the blue opalescence/translucency
Stain fluor. Powder Z black	For changing the greyscale value to reproduce the illusion of spatial depth and to create highly transparent enamel parts
Stain fluor. Powder Z full-orange	For use preferably in cervical or palatal regions, characterisation in the occlusal area
Stain fluor. Powder Z sand	Tinted white for characterisation of incisal margins, cusp tips and for areas where space is limited

BeCe® Incisal KIT ZIRKON

BeCe® Incisal KIT ZIRKON for individual design of the incisal portion on milled frames made from zirconium dioxide. The kit offers a coordinated assortment of individual materials for the fast and economical creation of layering with a unique characterisation in the incisal area.

In particular, combining BeCe® Incisal Kit Zirkon with the BeCe® CAD Zirkon milled dentine core base offers reproducible colour and shape results with a significantly reduced layer build-up.

Indication

- Zirconium dioxide ceramics with a CTE RT-500°C range of 10.5 x 10⁻⁶ K⁻¹
- All-ceramic BeCe® CAD ZIRKON HT+ and BeCe® CAD Zirkon+ constructions without incisal portions, overlaid with BeCe® PRESS Z individual materials
- Single tooth and bridge restorations (up to 2 pontics between two abutment teeth)



Product details				
Availability	Contents	Presentation	Qty	REF
BeCe® Incisal KIT ZIRKON		Kit	1	70058
Liner N	4 g			70165
Liquid Liner Z	25 ml			70170
Liquid Modelling Z	25 ml			70174
Z Enamel 1	20 g			70590
Z Enamel 2	20 g			70591
Z Enamel 3	20 g			70592
Z Enamel 4	20 g			70593
Z Transpa clear	20 g			70585
Z Transpa orange	20 g			70580
Z Transpa amber	20 g			70581
Z Transper blue	20 g			70582
Z Transpa grey	20 g			70583
Z Opal Incisal 1	20 g			70575
Z Opal Incisal 2	20 g			70576
Modifier orange	4 g			70595
Modifier white	4 g			70597

Liner

- The liner supports the bond between the zirconium dioxide frame and the pressable ceramic
- The liner is fluorescent and translucent, which enables light to pass through it. Combined with BeCe® CAD Zirkon constructions, this increases light scattering and gives the prepared restoration a more natural light dynamic

Product details

Availability	Contents	Presentation	Qty	REF
Liner 1	4 g	glass jar	1	70160
Liner 2	4 g	glass jar	1	70161
Liner 3	4 g	glass jar	1	70162
Liner 4	4 g	glass jar	1	70163
Liner 5	4 g	glass jar	1	70164
Liner N	4 g	glass jar	1	70165



Liquid Liner Z

- Liner liquid for mixing the BeCe PRESS Z liner powder

Product details

Availability	Contents	Presentation	Qty	REF
Liquid Liner Z	25 ml	bottle	1	70170



Z Enamel

- For enhancing the natural incisal section in the press build-up technique using Z enamel porcelains

Product details

Availability	Contents	Presentation	Qty	REF
Z Enamel 1	20 g	glass jar	1	70590
Z Enamel 2	20 g	glass jar	1	70591
Z Enamel 3	20 g	glass jar	1	70592
Z Enamel 4	20 g	glass jar	1	70593



Z Transpa

- Further special effects can be added to custom incisal build-ups by inlaying transparent zones. For example, Z Transpa blue can be used for creating optically pronounced marginal ridges on anterior teeth.

Product details

Availability	Contents	Presentation	Qty	REF
Z Transpa orange	20 g	glass jar	1	70580
Z Transpa amber	20 g	glass jar	1	70581
Z Transpa blue	20 g	glass jar	1	70582
Z Transpa grey	20 g	glass jar	1	70583
Z Transpa pink	20 g	glass jar	1	70584
Z Transpa clear	20 g	glass jar	1	70585



Z Opal Incisal

- Z Opal Incisal is available in two grades and creates a naturally vital opalescent effect

Product details

Availability	Contents	Presentation	Qty	REF
Z Opal Incisal 1	20 g	glass jar	1	70575
Z Opal Incisal 2	20 g	glass jar	1	70576



Z Modifier

- Where space is limited or where there is marked individualisation in the incisal area, Z Modifiers of intense colours can be used.
- There are no limits to creative design thanks to the miscibility with Z Enamel and Z Transpa materials

Product details				
Availability	Contents	Presentation	Qty	REF
Z Modifier orange	4 g	glass jar	1	70595
Z Modifier brown	4 g	glass jar	1	70596
Z Modifier white	4 g	glass jar	1	70597



Z Gingiva

- Two Z gingiva porcelains with a natural opacity are available for additions to the gingiva, particularly suitable in implant prosthetics or in the pontic region.

Product details				
Availability	Contents	Presentation	Qty	REF
Z Gingiva 1	20 g	glass jar	1	70577
Z Gingiva 2	20 g	glass jar	1	70578



Stain fluor. Powder Z Shades A - D

- In combination with selected BeCe® CAD Zircon constructions, the fluorescent stain shades A - D facilitate colouring of the pressed restorations according to the desired group of Vita shades

Product details				
Availability	Contents	Presentation	Qty	REF
Stain fluor. Powder Z Shade A	4 g	glass jar	1	70555
Stain fluor. Powder Z Shade B	4 g	glass jar	1	70556
Stain fluor. Powder Z Shade C	4 g	glass jar	1	70557
Stain fluor. Powder Z Shade D	4 g	glass jar	1	70558



Stain fluor. Powder Z

- BeCe PRESS Z includes a comprehensive range of stains for creating special shade effects easily

Product details				
Availability	Contents	Presentation	Qty	REF
Stain fluor. Powder Z violet	4 g	glass jar	1	70510
Stain fluor. Powder Z orange	4 g	glass jar	1	70511
Stain fluor. Powder Z full-orange	4 g	glass jar	1	70512
Stain fluor. Powder Z pretty-brown	4 g	glass jar	1	70513
Stain fluor. Powder Z black	4 g	glass jar	1	70514
Stain fluor. Powder Z white	4 g	glass jar	1	70515
Stain fluor. Powder Z sand	4 g	glass jar	1	70516
Stain fluor. Powder Z yellow	4 g	glass jar	1	70517
Stain fluor. Powder Z blue	4 g	glass jar	1	70518



Glaze Powder Z

- With this user-friendly glaze paste, you can achieve a natural lustre in the ceramic restoration

Product details				
Availability	Contents	Presentation	Qty	REF
Glaze Powder Z	3 g	glass jar	1	70542



Liquid Stain/Glaze Z

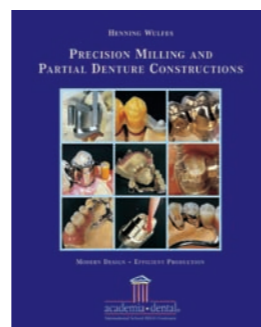
- Liquid for use with Stain fluor. Powder Z and Glaze Powder Z

Product details				
Availability	Contents	Presentation	Qty	REF
Liquid Stain/Glaze Z	25 ml	bottle	1	70172
Liquid Stain/Glaze Z	100 ml	bottle	1	70173



Precision Milling and Partial Denture Constructions Modern Design – Efficient Production

- Manual for dental laboratories and dental practices geared to prosthodontics
- Ideal for preparing the Master Dental Technician exam
- Practice-oriented guide and reference book
- Partial denture restoration with telescope constructions and clasp-anchored tooth replacement
- Systematic planning and designing
- Efficient dental production
- Various stages of restoration with partial denture techniques
- Clear step-by-step presentation of important procedures
- Historical retrospect
- Appendix with information on materials
- Many practical tips for users
- Processing errors and their consequences
- Author: Henning Wulfes

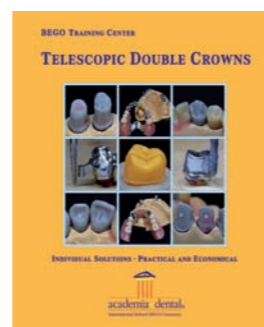


Product details

Form	
280 pages · Size 210 x 260 mm · approx. 1000 colour illustrations · Hardcover	
Availability	
	REF
German edition	88894
English edition	88895
Russian edition	88896

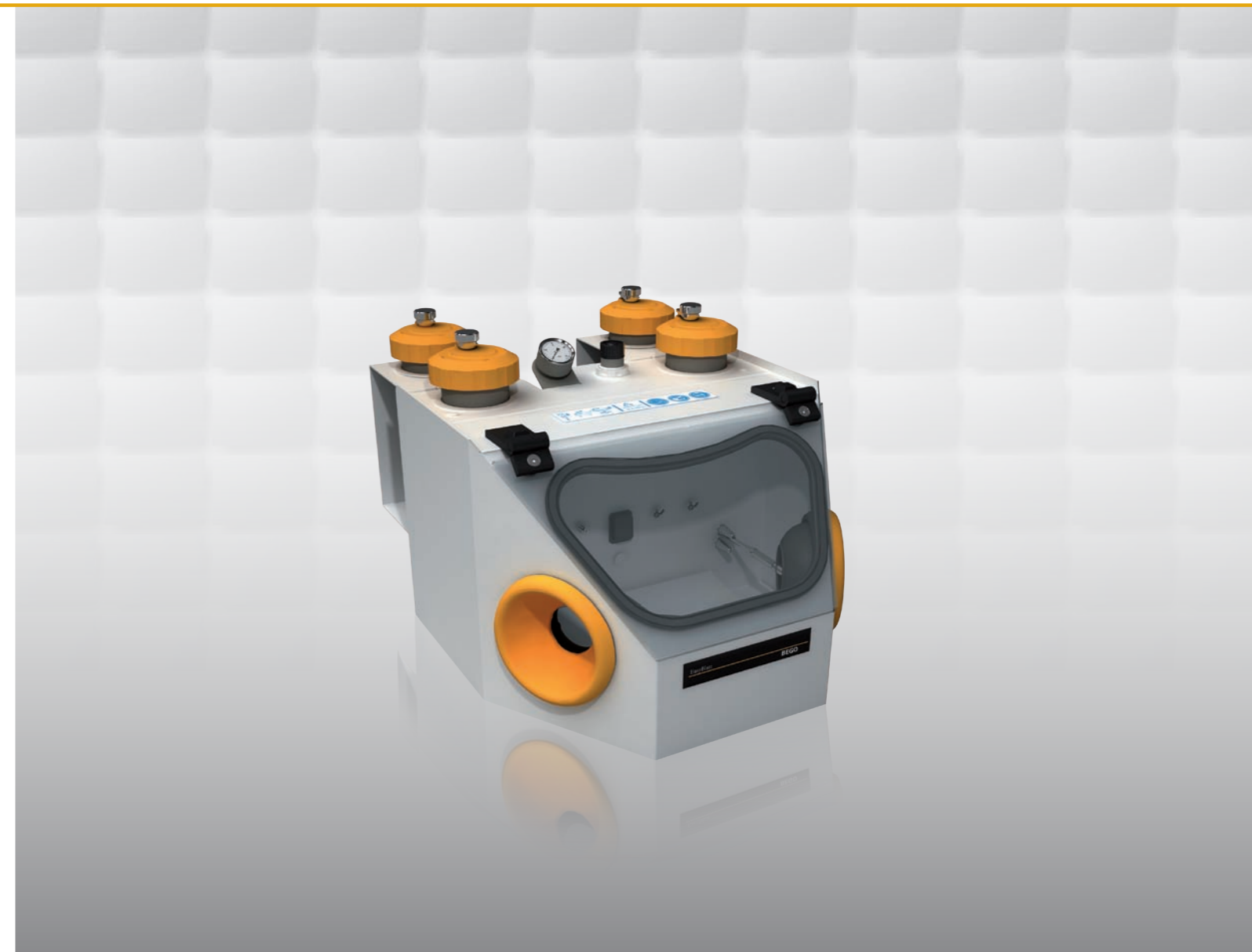
Telescopic Double Crowns Individual Solutions – Practical and Economical

- Manual for dental laboratories and dental practices
- Ideal for familiarization with the subject of telescopic double crowns
- Practice-oriented guide and reference book
- Detailed information regarding planning and designing
- Efficient dental manufacturing
- Clear step-by-step presentation of important procedures
- Troubleshooting and error prevention
- Many practical tips for users
- Author: Team of authors of BEGO Training Center and academia • dental



Product details

Form	
92 pages · Size 210 x 260 mm · approx. 270 colour illustrations · Hardcover	
Availability	
	REF
German edition	88870
English edition	88876
Russian edition	88875



BLASTING AND EXTRACTION

Blasting of cast objects is not a favourite job for many dental technicians. But complete removal of all oxide and investment material is essential for castings of the highest quality. The BEGO blasting materials Korox® and Perlablast® meet every requirement. When used in the BEGO blasting units, they provide the ideal preparation for subsequent surface finishing.

EasyBlast

For the perfect view during finishing

- Integrated LED lighting in the pencil blaster for an optimal view with no shadows when finishing, even intracoronally
- For the thorough removal of investment materials and oxides in order to avoid undesirable biological reactions with the patient
- LED technology enables the detection of cracks in the ceramic during blasting – providing the earliest possible quality assurance and avoiding complaints at a later date
- LED lighting in the blasting chamber has a service life ten times longer than conventional lamps
- The new EasyBlast can be upgraded to a 4-chamber blasting unit by adding 2 further blasting modules – you save the costs of buying a further unit
- In combination with the LED lighting, an intelligent colour coding system on the tanks and in the blasting chamber makes it impossible to mix up the blasting media

Upgradable:
up to 4 sandblasting
modules



EasyBlast – easy to operate, versatile and ergonomic

Product details

Technical data

Height	340 mm
Width	410 mm
Depth/Depth with additional tank	425/505 mm
Rated voltage	100–240 V, 50/60 Hz
Power	25 W max.
Compressed air connection	3–6 bar (0.3–0.6 [MPa]), 1/4"
Air consumption	approx. 60 l/min
Nominal internal diameter for connecting extraction system	32 mm
Weight excluding blasting material	12.3 kg

Scope of delivery

	Presentation	Qty	REF
EasyBlast (with lighting in handpiece) For connection to the central extraction with 2 abrasive media containers, 2 illuminated handpieces and exchangeable nozzles for different grit sizes, initial filling blasting media	piece	1	26385
EasyBlast with 4 blasting material containers and pencil blasters and 2 blasting modules	piece	1	26387
EasyBlast basic (No LED lighting in the pencil blasters)	piece	1	26375
EasyBlast basic with 4 blasting material containers and pencil blasters (No LED lighting in the pencil blasters) and 2 blasting modules	piece	1	26377

Accessories

	Contents	Presentation	Qty	REF
Mesh panel guard		piece	1	18350
Basic blasting module (without lighting)		piece	1	18130
Blasting module (with lighting)		piece	1	18390
Replacement panel		piece	1	17787
Fine blasting nozzle, Ø 1.2 mm, for Korox® 250, Korox® 110 and Perlablast® (125 µm)	2 pieces	pack	1	14550
Fine blasting nozzle, Ø 0.8 mm, for Korox® 50 and Perlablast® micro (50 µm)	2 pieces	pack	1	14549
Fine blasting nozzle, Ø 0.6 mm, for Korox® 50 and Perlablast® micro (50 µm)	2 pieces	pack	1	14548
Fine blasting nozzle, Ø 0.4 mm for Korox® 25		pack	1	14547
Korox® 250 special corundum blasting material	8 kg	canister	1	46014
Korox® 250 special corundum blasting material large pack	20 kg	tub	1	54300
Korox® 110 special corundum blasting material	8 kg	canister	1	46044
Korox® 110 special corundum blasting material large pack	20 kg	tub	1	54299
Korox® 50 special corundum blasting material	8 kg	canister	1	46062
Korox® 50 special corundum blasting material large pack	20 kg	tub	1	54298
Korox® 25 special corundum blasting material	8 kg	canister	1	46036
Perlablast® – 125 µm – blast-polishing material	8 kg	canister	1	46043
Perlablast® – 125 µm – blast-polishing material large pack	20 kg	tub	1	54301
Perlablast® micro – 50 µm – blast-polishing material	8 kg	canister	1	46092
Perlablast® micro – 50 µm – blast-polishing material large pack	20 kg	tub	1	54302
Spare collars	2 piece	pack	1	13376

A detailed brochure can be found at www.bego.com/download-center.

CE

Protempomatic plus

Fully automatic sandblaster for up to 6 cast partial denture frameworks simultaneously

Efficient, quick, cost-effective

- The integrated aim point in the nozzle enables exact positioning of the workpiece in the abrasive flow for quick, effective sandblasting
- Efficient use of blasting material emphasises the cost-effective sandblasting
- LED lighting in the sandblasting chamber provides a service life ten times higher than that of conventional lamps for cost-effective sandblasting and reduces maintenance costs
- The swivel nozzle enables the unit to be used as an automatic or manual sandblaster for maximum application options in the laboratory
- The initial position of the nozzle can be magnetically locked for accurately setting the optimal nozzle angle during automatic and manual sandblasting to ensure the best possible sandblasting performance
- The viewing glass is locked in position by a magnetic switch: When it is opened, sandblasting is discontinued: for maximum operational safety
- The basket is easily removed - for increased comfort during manual sandblasting
- Protempomatic can also be supplied without the filter module for connecting to a central extraction



Product details

Technical data	
Height	540 mm
Width	400 mm
Depth	410 mm
Rated voltage	230 V (plus), 100–240 V (Z), 50/60 Hz
Power at rated voltage of 230 V	1,225 W (plus), 25 W (Z)
Compressed air connection	4–6 bar (0.4–0.6 [MPa]), 1/4"
Air consumption	approx. 120 l/min
Capacity	8 kg
Weight excl. blasting material	32 kg (plus), 20 kg (Z)

Availability	Presentation	Qty	REF
Protempomatic plus incl. filter module, with 1 Class H filter, 1 safety filter bag, 1 suction hose with hand tube	piece	1	26390
Protempomatic Z for connection to the central extraction system	piece	1	26360

Accessories	Contents	Presentation	Qty	REF
Class H Filter		piece	1	18346
Filter bag	5 pieces	pack	1	18347
Hansa nozzle		piece	1	12136
Turntable, compl.		piece	1	12276
Replacement panel		piece	1	18354
Korox® 250 special corundum blasting material	8 kg	canister	1	46014
Korox® 250 special corundum blasting material large pack	20 kg	tub	1	54300
Korox® 110 special corundum blasting material	8 kg	canister	1	46044
Korox® 110 special corundum blasting material large pack	20 kg	tub	1	54299
Protective curtain		piece	1	18284
Rubber sleeves	4 pieces	pack	1	18358

A detailed brochure can be found at www.bego.com/download-center.



Duostar plus

Multifunctional combination of a fine blasting and recycling sandblaster unit

The all-rounder in your laboratory

- Integrated LED lighting in the pencil blaster for an optimal view with no shadows when finishing, even intracoronally
- For the thorough removal of investment materials and oxides in order to avoid undesirable biological reactions with the patient
- LED lighting in the blasting chamber has a service life ten times longer than conventional lamps for economical working and reduced maintenance costs
- Combines the properties of 2 units in the smallest of spaces and offers the advantages of both a fine blasting unit and a recycling sandblaster unit. This makes Duostar an ideal, economical investment, also for small and medium-sized laboratories
- Duostar is also available without a filter module, for connecting to the central extraction system



Product details

Technical data	
Height	590 mm
Width	400 mm
Depth	420 mm
Rated voltage	230 V (plus), 100–240 V (Z), 50/60 Hz
Power at rated voltage of 230 V	1,225 W (plus), 25 W (Z)
Compressed air connection	4–6 bar (0.4–0.6 [MPa]), 1/4"
Air consumption	approx. 120 l/min
Capacity recirculation system	8 kg
Capacity pencil blaster	700 g per container
Weight excl. blasting material	35 kg (plus), 23 kg (Z)

Availability	Presentation	Qty	REF
Duostar plus incl. initial filling, microblast media container Korox® 110/Perlablast® micro, 2 microblaster handpiece nozzle with LED lighting x 1.2 mm / 0.8 mm, incl. filter module with 1 Class H filter, 1 safety filter bag, 1 suction hose with hand tube	piece	1	26395
Duostar Z for connection to the central extraction system	piece	1	26365

Accessories	Contents	Presentation	Qty	REF
Class H Filter		piece	1	18346
Filter bag	5 pieces	pack	1	18347
Hansa nozzle		piece	1	12136
Replacement panel		piece	1	17787
Fine blasting nozzle, Ø 1.2 mm, for Korox® 250, Korox® 110 and Perlablast® (125 µm)	2 pieces	pack	1	14550
Fine blasting nozzle, Ø 0.8 mm, for Korox® 50 and Perlablast® micro (50 µm)	2 pieces	pack	1	14549
Fine blasting nozzle, Ø 0.6 mm, for Korox® 50 and Perlablast® micro (50 µm)	2 pieces	pack	1	14548
Fine blasting nozzle, Ø 0.4 mm for Korox® 25		pack	1	14547
Korox® 250 special corundum blasting material	8 kg / 20 kg	canister / tub	1	46014 / 54300
Korox® 110 special corundum blasting material	8 kg / 20 kg	canister / tub	1	46044 / 54299
Korox® 50 special corundum blasting material	8 kg / 20 kg	canister / tub	1	46062 / 54298
Korox® 25 special corundum blasting material	8 kg	canister	1	46036
Perlablast® – 125 µm – blast-polishing material	8 kg / 20 kg	canister / tub		46043 / 54301
Perlablast® micro – 50 µm – blast-polishing material	8 kg / 20 kg	canister / tub		46092 / 54302
Mesh panel guard		piece	1	18350
Rubber sleeves	4 pieces	pack	1	18358

A detailed brochure can be found at www.bego.com/download-center.



Korostar plus

The ideal blasting unit for manual, economical blasting

Robust and powerful

- The ergonomic design allows a relaxed working position and great manual freedom for comfortable working
- Low-maintenance and economical thanks to the use of many hard-wearing components
- Reliable even under maximum load
- The injector nozzle ensures optimised proportion of blasting material in the compressed air flow of the blasting material circulating system
- Large charging flap and well illuminated blasting chamber
- LED lighting in the blasting chamber has a service life ten times longer than conventional lamps and reduces maintenance costs
- Korostar is also available without a filter module, for connecting to the central extraction system



Product details

Technical data

Height	540 mm
Width	400 mm
Depth	410 mm
Rated voltage	230 V (plus), 100–240 V (Z), 50/60 Hz
Power at rated voltage of 230 V	1,225 W (plus), 25 W (Z)
Compressed air connection	4–6 bar (0.4–0.6 [MPa]), 1/4"
Air consumption	approx. 120 l/min
Capacity	8 kg
Weight excl. blasting material	30 kg (plus), 18 kg (Z)

Availability	Presentation	Qty	REF
Korostar plus incl. filter module with 1 Class H filter element, 1 safety filter bag, 1 suction tube with hand pipe	piece	1	26400
Korostar Z for connection to the central extraction system	piece	1	26370

Accessories	Contents	Presentation	Qty	REF
Class H filter element		piece	1	18346
Filter bag	5 pieces	pack	1	18347
Replacement blasting nozzle		piece	1	12136
Replacement panel		piece	1	17787
Mesh panel guard		piece	1	18350
Rubber collars	4 pieces	pack	1	18358
Korox® 250 special corundum blasting material	8 kg	canister	1	46014
Korox® 250 special corundum blasting material large pack	20 kg	tub	1	54300
Korox® 110 special corundum blasting material	8 kg	canister	1	46044
Korox® 110 special corundum blasting material large pack	20 kg	tub	1	54299

A detailed brochure can be found at www.bego.com/download-center.

CE

Filtermodul

For the highest level of occupational safety

The highest level of occupational safety

- Approved for working with hazardous dusts
- Complies with the highest protection class H (this means that every unit is checked to assure the H classification)
- Efficiently protects you from carcinogenic dusts

Economical

- The automatic switch-on function is ideal for using the Filtermodul in direct combination with the blasting units
- The module is automatically switched on and off by the activation and deactivation of the blasting unit
- Reduces power consumption, lowers costs and protects the environment

Push & Clean function

- For constantly high suction, even with an increasingly full filter bag
- Enables rapid and effective filter cleaning at the touch of a button



Product details

Technical data

Height	595 mm
Width	380 mm
Length	450 mm
Rated voltage	230 V, 50/60 Hz
Power at rated voltage of 230 V	1,500 W
Weight	10 kg

Availability	Presentation	Qty	REF
Filter module complete with 1 Class H filter, 1 safety filter bag, 1 suction hose with hand tube	piece	1	26380

Accessories	Contents	Presentation	Qty	REF
Class H Filter		piece	1	18346
Safety filter bag	5 pieces	pack	1	18347

CE

Korox® Special corundum blasting material made from 99.6 % aluminium oxide

- Alpha corundum with high hardness
- It remains sharp-edged until completely worn
- Efficacy and ease of use are reflected in its impressive compatibility with the new BEGO recycling sandblasters such as Duostar or Protempomatic
- When used in pencil sandblasters, Korox® 250 not only removes investment material residues and oxides efficiently, but is also ideal for optimal surface conditioning of non-precious alloys prior to ceramic firing
- The high purity of Korox means there is no risk of contamination of the alloy surface
- Korox® complies with the regulations of occupational safety institutes

Product details

Availability	Contents	Presentation	Qty	REF
Korox® 250 (250 µm)	8 kg	canister	1	46014
Korox® 250 (250 µm) large pack	20 kg	tub	1	54300
Korox® 110 (110 µm)	8 kg	canister	1	46044
Korox® 110 (110 µm) large pack	20 kg	tub	1	54299
Korox® 50 (50 µm)	8 kg	canister	1	46062
Korox® 50 (50 µm) large pack	20 kg	tub	1	54298
Korox® 25 (25 µm)	8 kg	canister	1	46036



Perlablast® Blasting material for blast polishing

- It consists of tiny, lead-free beads of soda glass which produce an even silky lustre
- The controlled size and shape of the beads make for a high level of usability and therefore efficient, economical working.
- No metal is lost because the surface is compressed and not abraded
- No finishing is necessary on the surfaces which are not intended for polishing
- Perlablast® is used to give the occlusal surfaces a matt finish with all crown and bridge alloys

Product details

Availability	Contents	Presentation	Qty	REF
Perlablast® (125 µm)	8 kg	canister	1	46043
Perlablast® (125 µm) large pack	20 kg	tub	1	54301
Perlablast® micro (50 µm)	8 kg	canister	1	46092
Perlablast® micro (50 µm) large pack	20 kg	tub	1	54302



Complementary product

Ideal for use in combination with the sandblaster generation (page 86 – 90)
 Optimally matched system components mean clear handling, processing reliability with high-quality expert results.



SURFACE TREATMENT

Surface finishing is an important step in the fabrication of a prosthesis. The appropriate fine grinding stones and devices such as the Paraskop® M milling unit, the BeCe® Air Zirkon turbine or the Triton SLA steam blaster have been tried and tested in practice for many years. For partial dentures, the Eltropol 300 electrolytic polishing unit and Wirolyt polishing liquid are a guarantee of good results.

Paraskop® M Multifunctional milling unit

- Milling and drilling wax and metal and machining zirconium dioxide with the optionally-available BEGO laboratory turbine
- Powerful, maintenance-free, brushless milling spindle with very long service life
- Vibration-free running of the spindle ensures optimum concentricity
- Continuously variable speed control up to 50,000 rpm, anti-clockwise rotation up to 30,000 rpm for all conventional applications in milling work
- Offset-free and fast positioning of the model table thanks to electro-magnetic locking
- The cold-light LEDs offer maximum light yield without heating the wax-up, and a service life ten times longer than conventional lamps



BeCe® Air Zirkon Laboratory turbine

- The large 2 litre water tank is unique on the market and facilitates efficient working over a long period of time without refilling
- The integrated ceramic water filter removes dirt and dust particles from the water and prevents damage to the rotor
- The damping function reduces the sound level for increased comfort and pleasant working



Collection tray

Splash chamber

Zirconium abrasives set 2°

Product details Paraskop® M

Technical data

Height	approx. 480–570 mm
Width	290 mm
Depth	310 mm
Rated voltage	200–240 V, 50/60 Hz
Special voltage	100–120 V, 50/60 Hz
Rated power of milling spindle	260 W
RPM	approx. 1,000–50,000 U/min
Anti-clockwise	up to 30,000 U/min
Weight	8.9 kg

Scope of delivery	Presentation	Qty	REF
Paraskop® M Basic unit with milling spindle, surveying head, model table and LED lamp, 2.35 mm chuck with depth stop, foot-switch, chuck key, cleaning brush and 2 spare fuses	piece	1	26340

Accessories	Contents	Presentation	Qty	REF
Milling set 2.35 mm		set	1	43470
Zirconium abrasives 2°	4 pieces	set	1	43510
Collet chuck 2.35 mm with bit stop		piece	1	31722
Collet chuck 3 mm with bit stop		piece	1	31721
Dust protection cover		piece	1	32746
Refill holder		piece	1	22163
Graphite refills		pack	1	22150
Measurement set according to Ney	10 pieces	set	1	22160
Model table		piece	1	18110
Laboratory turbine		piece	1	26345
Water collection bowl for Paraskop® M		piece	1	18082
Splash cabin for trimming ceramics		piece	1	18083
Compressed air coupling set		piece	1	18115

Product details BeCe® Air Zirkon

Technical data

Height	260 mm
Width	260 mm
Depth	240 mm
RPM	max. 320,000 U/min
Compressed air connection	min. 3 bar

Scope of delivery	Presentation	Qty	REF
Laboratory turbine BeCe® Air Zirkon with control unit (2 L water tank) and connection set	piece	1	26345

A detailed brochure can be found at www.bego.com/download-center.

Triton SLA Wet and dry steam cleaner

Environmentally sound, intensive and versatile

- High-performance unit with “wet” and “dry steam” setting
- Fixed water connection with interconnected BEGO full demineralising cartridge effectively minimises calcification of the unit
- Steam pressure of approx. 3 bar for gentle but thorough cleaning
- High degree of safety through fixed connections consisting of copper tubing
- Corrosion-resistant housing made of special steel and plastic
- The insulation of the spray gun prevents the handpiece from heating up, thus ensuring maximum comfort even during longer periods of use
- Water flow switch cuts off the water supply immediately should leakages occur and prevents water damage in the laboratory



Product details

Technical data	
Height	540 mm
Width	380 mm
Depth	280 mm
Rated voltage	200–240 V, 50/60 Hz
Special voltage	100–120 V, 50/60 Hz
Power at rated voltage of 230 V	1.5 kW
Boiler temperature at 3 bar	133 °C
Steam pressure	3±0.2 bar (approx. 0.3 [MPa])
Boiler capacity	2.9 l
Water connection	3/4", 4–6 bar
Weight	13 kg

Availability	Contents	Presentation	Qty	REF
Triton SLA with full demineralisation cartridge, ring spanner incl.		piece	1	26005
Accessories	Contents	Presentation	Qty	REF
Full demineralisation cartridge with 2 inserts and ring spanner		piece	1	37600
Inserts for cartridge	2 pieces	set	1	37602
Durox replacement one-way resin	6 litre	tub	1	52121
Ring spanner		piece	1	11044

A detailed brochure can be found at www.bego.com/download-center.

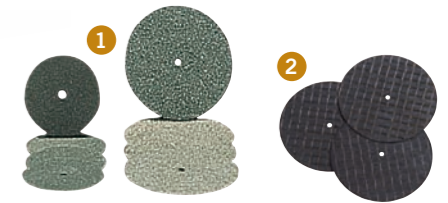


Separating discs for separating sprues

- 1 BEGO separating discs for cutting off sprues safely and slicing through ceramic and metal, leaving only a narrow gap
- 2 SecuDisc separating discs are very safe and long-lasting due to the glass fibre mesh laid-in on both sides. This also saves working time and material. The 22 x 0.2 mm SecuDisc cuts precious alloys very economically

Product details

Availability	Contents	Presentation	Qty	REF
1 BEGO Separating discs Ø 25 x 0.5 mm	100 pieces	pack	1	43040
Ø 35 x 0.8 mm	100 pieces	pack	1	43020
For ceramics: Ø 22 x 0.3 mm	100 pieces	pack	1	43060
2 SecuDisc Separating discs, Ø 22 x 0.2 mm	20 pieces	pack	1	54810
Ø 25 x 0.3 mm	20 pieces	pack	1	54809
Ø 38 x 0.5 mm	20 pieces	pack	1	54808



Rough grinding stones

- Ceramically bonded, for rough grinding large areas

Product details

Availability	Contents	Presentation	Qty	REF
Rough grinding stones, Shank size 2.35 mm	12 pieces	pack	1	43110



Fine-grain grinding stones with a high cutting capacity

- Fine grit stones are used for efficient grinding of dental alloys. Shank size 2.35 mm – recommended rpm 30,000 to 50,000 min⁻¹
- The figures of the ISO No. denotes the largest diameter of the active section in 1/10 mm

Product details


Availability	Contents	Presentation	Qty	REF
Shank size 2.35 mm	100 pieces	pack	1	43160
H1 ISO REF 066				
H2 ISO REF 051	100 pieces	pack	1	43180
H3 ISO REF 035	100 pieces	pack	1	43200
H7 ISO REF 050	100 piece	pack	1	43280



Perforated discs

- They are particularly resistant
- Perforated discs are highly resistant and are used for effective removal of sprue ends on the castings after separation
- The large circumference of the perforated discs optimize the cutting capacity


Product details				
Availability	Contents	Presentation	Qty	REF
Perforated discs Ø 22 x 3 mm	100 pieces	pack	1	43100
Perforated discs Ø 34 x 3 mm	100 pieces	pack	1	43080



WiroFlex Rubber polishing wheels

- Very thin and extremely flexible, they can be used for all dental alloys
- Especially well-suited for the partial denture technique, for finishing areas that are difficult to access as well as for crown and bridge work – for example, for interdental work – because they conform very closely to the shape to be rubber-polished


Product details				
Availability	Contents	Presentation	Qty	REF
WiroFlex Ø 22 x 1.2 mm	100 pieces	pack	1	43311



Rubber polishers for pre-polishing alloy surfaces

- For pre-polishing the surfaces of precious and non-precious castings which can then be high-lustre polished to a deep, lasting lustre


Product details				
Availability	Contents	Presentation	Qty	REF
Rubber polishing wheels, Ø 22 x 3.5 mm	100 pieces	pack	1	43310
• green	100 pieces	pack	1	43330
• black	100 pieces	pack	1	43330
Rubber polishing tips, Ø 6.5 x 24 mm	100 pieces	pack	1	43350
• green	100 pieces	pack	1	43370
• black	100 pieces	pack	1	43370
Knife-edge rubber polishing wheels, Ø 15.5 mm	100 pieces	pack	1	43390
• green	100 pieces	pack	1	43410
• black	100 pieces	pack	1	43410



Diamond grinding stones sintered

- Diamond rotary instruments have a high cutting capacity and considerably longer service life compared with ceramic bonded fine grit stones
- The figures of the ISO No. denotes the largest diameter of the active section in 1/10 mm, 2.35 mm shaft diameter


Product details			
Availability	Presentation	Qty	REF
Medium grain:			
1 ISO REF .080	piece	1	43491
2 ISO REF .050	piece	1	43492
3 ISO REF .050	piece	1	43494
4 ISO REF .023	piece	1	43495
5 ISO REF .037	piece	1	43496
6 ISO REF .050	piece	1	43497
Coarse grain:			
7 ISO REF .050	piece	1	43498



Milling set Standard milling set for combined restorations

- The milling set includes the most important cutter geometries for creating telescopic crowns, bars and stress distribution arms
- For recommended rotational speeds, please see table


Product details			
Availability	Presentation	Qty	REF
Milling set with 2.35 mm shaft diameter	set	1	43470
consists of:			
1 Carbide wax cutter, cylindrical 023 (approx. 3,000 rpm)	piece	1	
2 Carbide parallel cutter, coarse 023 (approx. 6,000 rpm, non precious alloy)	piece	1	
3 Carbide parallel cutter, fine 023 (approx. 6,000 rpm, non-precious alloy)	piece	1	
4 Carbide spiral drill, 010 (approx. 3,000 rpm, wax)	piece	1	
5 Carbide groove cutter, coarse 010 (approx. 3,000 rpm)	piece	1	
6 Carbide groove cutter 012 (approx. 3,000 rpm, non-precious alloy)	piece	1	
7 Stainless steel parallel pin	piece	1	
8 Carbide shoulder cutter (approx. 3,000 rpm)	piece	1	



Zirconium abrasives set for the water-cooled laboratory turbine of the Paraskop® M

- The set comprises abrasives with exactly coordinated surface structure for processing primary crowns or stress distribution arms made from zirconium dioxide
- Used in the water-cooled laboratory turbine BeCe® Air Zirkon, they produce optimal surfaces in four steps
- The recommended rotational speed for optimal surface finishing is 160,000 rpm


Product details			
Availability	Presentation	Qty	REF
Zirconium abrasives set	set	1	43510



Polishing point holder mandrels

- Particularly tough polishing point holders for all areas of dental laboratory work
- Shaft diameter 2.35 mm


Product details				
Availability	Contents	Presentation	Qty	REF
Polishing tip holders, cylindrical	12 pieces	pack	1	52300
Mandrels	12 pieces	pack	1	52290



Polishing compounds for dry polishing

- These compounds are wax-bonded and enable clean and practically dust-free work
- They do not contain any harmful quartz

Product details				
Availability	Contents	Presentation	Qty	REF
Rough and final polish, for cobalt-chrome, blue, approx. 1.33 kg	6 pieces	pack	1	52310
Final polish for metal and acrylic, white, approx. 1.4 kg	6 pieces	pack	1	52311




Steribim® super

High-performance polishing compound for acrylic dentures with germicidal effect

- Formaldehyde-free, biodegradable, toxicologically safe
- Special additives have a germicidal effect
- Kind to the skin
- No unpleasant odour
- Quartz-free – no danger of silicosis
- Excellent polishing performance down to the last gram – low residual roughness
- Smooth consistency
- Bactericidal effect


Product details				
Availability	Contents	Presentation	Qty	REF
Steribim® super	10 kg	tub	1	54283



Diamond polishing compound for special applications

- Diapol polishes even the hardest alloys and ceramic
- Ideal for polishing ceramic abutments or if a glaze firing is no longer possible
- Economical application: approx. 3 mm of compound is sufficient for a 3-unit bridge

Product details				
Availability	Contents	Presentation	Qty	REF
Diapol (syringe)	5 g	syringe	1	52305



Eltropol 300

- Automatic recommendation of polishing time for different sizes of framework prevents unnecessary reduction of material
- Innovative heating concept quickly brings the unit up to operating temperature
- Major time saving thanks to simultaneous polishing of two Co-Cr partial denture bases
- User-friendly operating panel with display and soft keys
- Indicator to show when the solution in the polishing bath is due to be changed ensures consistent polishing quality
- Simplified emptying directly into the canister via the drainage device, without coming into contact with the acid
- Uniform movement of the polishing bath ensures outstanding polishing results
- Supplementary cathode for frameworks ensures uniform polishing, even with frameworks which have a deep palate
- The automatic current stabilisation also supports uniform polishing



Product details

Technical data	
Height	452 mm
Width	400 mm
Depth	275 mm
Rated voltage	110–240 V, 50/60 Hz
Special voltage	see rated voltage
Max. power consumption	200 W
Polishing current	max. 10 A
Capacity of tub/bowl	2 litre
Weight	10 kg

Availability		Presentation	Qty	REF
Eltropol 300 110–240 V, with supplementary cathode, clamps with holder, model hook		piece	1	26310
Accessories	Contents	Presentation	Qty	REF
Supplementary cathode		set	1	31175
Supplementary cathode Eltropol 300		set	1	17000
Spare clamps with holder	2 pieces	set	1	36445
Spare clamps	6 pieces	set	1	14651
Model hook		piece	1	17001
Wirolyt polishing liquid	1 litre	bottle	1	52460

A detailed brochure can be found at www.bego.com/download-center.

CE

Wirolyt Electrolytic polishing liquid

- Liquid for electrolytic polishing of cobalt-chrome alloys
- Wirolyt is equally suited for Eltropol and polishing units of other manufacturers and enhances their performance and efficiency

Product details

Availability	Contents	Presentation	Qty	REF
Wirolyt	1 litre	bottle	1	52460



JOINTING TECHNOLOGY/SOLDERING

When it comes to jointing, laser welding is the standard technology. BEGO has continuously expanded its expertise in this technology. Yet soldering still has an important role to play. For this method of jointing, the product range includes essential accessories such as BEGO solders and fluxes.

LaserStar T plus

The compact power laser from BEGO

- Compact and powerful, with user-friendly features
- Precision welding ensured by controllable welding energy with pulse time, charging voltage and focus adjustment
- Ergonomic design and positioning of the controls directly in the field of vision for convenient and fatigue-free working
- Simple operation with a large colour touch display and intuitive menu navigation
- Pulse shaping for high-strength stress- and crack-free joints
- Eco mode switches off all unnecessary components in idle mode and reduces operating costs
- The external Ventus extraction unit efficiently removes welding fumes from the welding chamber, ensuring maximum safety at the workplace

With colour touch display & eco mode



Ventus

Product details

Technical data	
Laser type	Nd: YAG
Wavelength	1064 nm
Pulse energy	60 joules
Pulse length	0.3–50 ms
Rated power	60 W
Pulse peak output	max. 8 KW
Spot diameter	0.3 mm to 2.0 mm
Pulse frequency	Single pulse, 1–50 Hz
Pulse shapes	4 fixed, 12 variable available
Microscope	4H Jena with TrueView function 16x (visible magnification)
Aiming device	Reticle in microscope
Welding parameters	can be set both inside and outside the welding chamber
Inert gas nozzles for argon	1 flexible, 1 fixed
Illumination of welding chamber	LED ring light, adjustable
Welding fume extraction	Integrated connection for an external extraction system, such as BEGO Ventus
Water/air cooling	with ion filter, integrated
Power supply	230 V/50 Hz, 1 phase, 13 A, 50 Hz or 110 V/60 Hz; 1 phase, 16 A
Weight	approx. 55 kg
Height	505 mm
Width	521 mm
Depth	755 mm

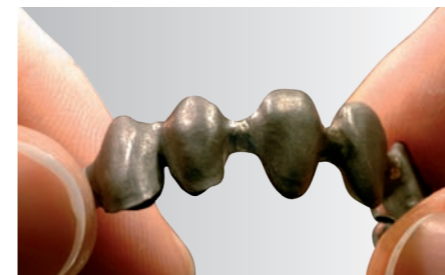
Availability		Presentation	Qty	REF
LaserStar T plus		piece	1	26405
Accessories	Contents	Presentation	Qty	REF
Hand rests, height-adjustable	2 pieces	set	1	15650
Pressure regulator for argon inert gas		piece	1	13380
Lifting table		piece	1	15649

Technical data Ventus Filter system	
Line voltage	230 V, 50/60 Hz
Power consumption	5.2 A
Flow rate	0–120 m³/h
Sound level	approx. 65 dB(A)
Dimensions (H x W x D)	360 x 276 x 390 mm

Availability		Presentation	Qty	REF
Ventus filter system for LaserStar T plus		piece	1	26205

A detailed brochure can be found at www.bego.com/download-center.

CE



LaserStar T plus

Optimal strength within a joint is achieved by 80% overlapping of the individual welding spots. Thus, the weld root of the preceding welding spot is partially melted again and filled with molten metal.

Additional materials for laser welding

Product details				
Availability	Composition in % by mass	Thickness/mm	Quantity	REF
Wiroweld (CoCrMo, C-free)	Co 63.5 · Cr 29 · Mo 5.5 · Si 1 · Mn 1	0.35	2 m	50003
Wiroweld (CoCrMo, C-free)	Co 63.5 · Cr 29 · Mo 5.5 · Si 1 · Mn 1	0.5	1.5 m	50005
Wiroweld NC (NiCrMo, C-free)	Ni 63.8 · Cr 22.1 · Mo 9.1 · Nb 3 · Si 1 · Fe 1	0.35	approx. 5.5 m	50006
Titandraht Grade 2	Ti 100	0.35	approx. 5 m	50008
AuroLloyd® KF wire	Au 55 · Ag 29.2 · Pd 10 · In 3.5 · Zn 1.2 · Sn 1 · Ru	0.35	approx. 5 g	61153
BegoCer® G wire	Au 51.5 · Pd 38.4 · In 8.7 · Ga 1.3 · Ru	0.35	approx. 5 g	61164
BegoPal® 300 wire	Pd 75.4 · In 6.3 · Ag 6.2 · Au 6 · Ga 6 · Ru	0.35	approx. 5 g	61165
BegoStar® ECO wire	Pd 51.9 · Ag 23 · Au 15 · In 6 · Sn 4 · Ru	0.35	approx. 5 g	61171
Bio PlatinLloyd® wire	Au 75.1 · Ag 14.8 · Pt 7.8 · Zn 1.8 · Rh · Mn · Mg	0.35	approx. 5 g	61161
Bio PontoStar® wire	Au 87 · Pt 10.6 · Zn 1.5 · In · Rh · Mn · Ta	0.35	approx. 5 g	61157
Bio PontoStar® XL wire	Au 86 · Pt 11.5 · Zn 1.6 · Fe · Rh · In	0.35	approx. 5 g	61167
ECO d'OR wire	Ag 40.5 · Au 38.1 · Pd 13.0 · In 8.0 · Mn · Ta	0.35	approx. 5 g	61170
InLloyd® 100 wire	Au 78.1 · Ag 15.5 · Pt 3.9 · Zn 2.4 · Ir	0.35	approx. 5 g	61163
PlatinLloyd® 100 wire	Au 72 · Ag 13.7 · Cu 9.8 · Pt 3.5 · Zn · Ir	0.35	approx. 5 g	61152
PlatinLloyd® KF wire	Au 72.8 · Ag 16.1 · Pd 5.7 · Zn 3 · Pt 2 · Mn · Rh	0.35	approx. 5 g	61158
PlatinLloyd® M wire	Au 70 · Ag 11.7 · Cu 10 · Pt 5 · Zn 1.9 · Pd 1 · In · Re	0.35	approx. 5 g	61155
PontoLloyd® G wire	Au 84.1 · Pt 8.3 · Pd 4.8 · In 2.7 · Ta	0.35	approx. 5 g	61166
PontoLloyd® L wire	Au 75 · Pd 17.9 · Ag 3 · In 2.5 · Sn 1.5 · Re	0.35	approx. 5 g	61169
PontoLloyd® P wire	Au 77.5 · Pt 9.9 · Pd 8.9 · In 1.4 · Ag 1 · Sn · Fe · Cu · Ir	0.35	approx. 5 g	61154
Pontonorm wire	Au 73.8 · Ag 9.2 · Pt 9.0 · Cu 4.4 · Zn 2.0 · In 1.5 · Ir	0.35	approx. 5 g	61172
PontoRex® G wire	Au 70 · Ag 13.2 · Pt 9.4 · Cu 3 · Zn 2 · In 1.9 · Rh · Ir	0.35	approx. 5 g	61151
PontoStar® G wire	Au 85.6 · Pt 11.4 · In 2.3 · Fe · Rh	0.35	approx. 5 g	61150

Thermostop Heat protection paste

- Contains no asbestos
- Is used to cover the acrylic base when soldering has to be carried out close to it
- The acrylic parts do not have to be removed even when soldering is difficult

Product details				
Availability	Contents	Presentation	Qty	REF
Thermostop	140 g	tin	1	52540



Fluxsol Flux

- Ready for immediate use in soldering precious-metal and non-precious metal alloys

Product details				
Availability	Contents	Presentation	Qty	REF
Fluxsol	80 g	bottle	1	52531



Minoxyd Flux

- For soldering precious-metal alloys and precious to cobalt-chrome or nickel-chrome
- It saves intermediate soldering and provides strong joints that hold up even under great stress and strain
- Minoxyd is also used for soldering metal-to-ceramic alloys in the furnace after firing the ceramic

Product details				
Availability	Contents	Presentation	Qty	REF
Minoxyd	80 g	bottle	1	52530



Instructions on use

Thickened flux should be replaced. Adding water impairs the antioxidising effect. Flux applied to the area of the joint must be dried slowly to avoid bubble formation and associated oxidation when the bubbles burst.

High-quality dental solders – perfectly coordinated with BEGO alloys

- Reliable soldering process and outstanding adhesion because the working temperature is geared to the respective alloy
- High strength ensures protection against fractures at the joints
- The special composition of the BEGO solders guarantees an easy flowability for the finest joining work
- Maximum corrosion resistance thanks to the optimal composition with chrome and molybdenum
- The soldered joints are easily veneered without any problem

Wirobond® solder Soldering rods for Wirobond® alloys

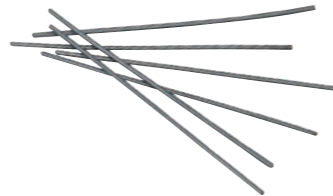
Product details					
Characteristics					
Melting range	1100–1150 °C				
Soldering temperature	1180 °C				
Flux	Fluxsol				
Composition in % by mass					
Co 60.5 · Cr 28.5 · Si 4.5 · Mo 3 · Fe 1.5 · B 1.5 · C					
Availability	Contents	Presentation	Qty	REF	
Wirobond® solder (triangular) ▲	8 pieces	pack	1	52622	



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Wiron® solder Soldering rods for all BEGO nickel-chrome alloys

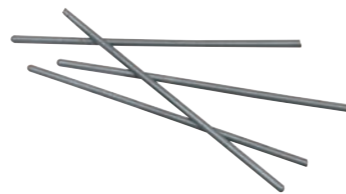
Product details					
Characteristics					
Melting range	1020–1150 °C				
Soldering temperature	1165 °C				
Flux	Fluxsol				
Composition in % by mass					
Ni 66 · Cr 19 · Mo 5.5 · Fe 5 · Si 3.5 · B					
Availability	Contents	Presentation	Qty	REF	
Wiron® solder (round) ●	6 pieces	pack	1	52625	



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Cobalt-chrome solder Soldering rods for all cobalt-chrome partial denture alloys

Product details					
Characteristics					
Melting range	1100–1150 °C				
Soldering temperature	1180 °C				
Flux	Fluxsol				
Composition in % by mass					
Co 61 · Cr 28.5 · Mo 3.5 · Si 4 · Fe 1.5 · B · C					
Availability	Contents	Presentation	Qty	REF	
Cobalt-chrome solder (half-round) ◐	5 pieces	pack	1	52520	



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WG I White gold solder for BEGO cobalt-chrome and BEGO nickel-chrome alloys, not suitable for metal-to-ceramic applications

Product details					
Characteristics					
Melting range	985–1005 °C				
Soldering temperature	1020 °C				
Flux	Fluxsol/Minoxyd				
Composition in % by mass					
Au 65 · Pd 15 · Ag 8.5 · Cu 7 · Zn 1.7 · In 1.5 · Sn 1.3					
Availability	Contents	Presentation	Qty	REF	
WG I	5 g	roll	1	61075	



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WG II White gold solder for BEGO cobalt-chrome partial denture alloys

Product details					
Characteristics					
Melting range	890–920 °C				
Soldering temperature	930 °C				
Flux	Minoxyd				
Composition in % by mass					
Au 80 · Ni 15 · Zn 5					
Availability	Contents	Presentation	Qty	REF	
WG II	4 g	roll	1	61095	



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WGL White gold solder for furnace soldering after firing BEGO cobalt-chrome and BEGO nickel-chrome metal-to-ceramic alloys

Product details					
Characteristics					
Melting range	730–770 °C				
Soldering temperature	860 °C				
Flux	Minoxyd				
Composition in % by mass					
Au 65 · Zn 13.9 · Ag 13 · Ni 6 · Cu 2 · In					
Availability	Contents	Presentation	Qty	REF	
WGL	5 g	pack	1	61079	



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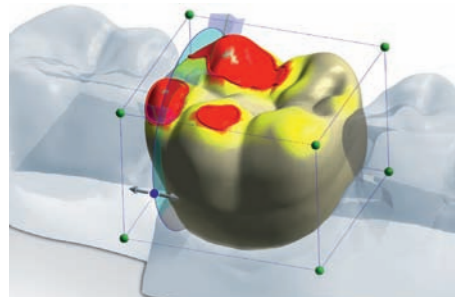
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