BEGO Catalogue

DENTAL TECHNOLOGY

Valid from
March 2025

Partners in Progress

BEGO

PARTNERS IN PROGRESS

HIGH-PERFORMING IN CONVENTIONAL DENTAL TECHNOLOGY

and guiding the future of digital dental technology

As an experienced and loyal partner, BEGO actively builds the future of dental health. What is important today – and what will be essential in the future? Dental laboratories worldwide trust our expertise to find the right solutions. We emphasize progress, efficiency and “Made in Germany”. This is how we develop conventional state-of-the-art dental technology: precious and non-precious alloys as well as equipment, materials and services for the production of high-quality prosthesis.

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Work Preparation

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
- High accuracy of detail with all standard impression materials demonstrates the extraordinary versatility of the product
- The thixotropic properties of BegoStone plus allow an immediate build-up
- BegoStone plus exhibits very good flow properties with only gentle vibration, making it easy to ensure that all parts of the impression are filled without any bubbles
- A working time of approx. 5 minutes enables fatigue-free working
- The color, 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 low expansion values (0.09 %, linear) provide an optimal basis for extremely precise restorations
- A 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	
Color	ivory 35
Soaking time	15 sec.
Processing time at 20 °C	approx. 5 min.
Setting time (Vicat test)	approx. 10 min.
Compressive strength after 1 hour [MPa]	60
Bending tensile strength (DIN) after 24 hours [MPa]	12
Setting expansion [%]	0.09
Hardening time	approx. 30 min.
Hardness after 1 hour [MPa]	approx. 220

Availability	**Contents**	**REF**
BegoStone plus	12 kg tub	54811

Ney Measuring Set

2

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

Product details

Availability	REF
Set of tools, shaft Ø 3 mm; 1 set consisting of undercut measuring instruments:	22160
1 0.25 mm	22145
2 0.50 mm	22146
3 0.75 mm	22147
4 Locating pin	22148
5 Wax scraper	22149
6 Refill holder	22163
Graphite refills (10 pieces)	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	Dimensions W × H × D (mm)	REF
U1, (Lower jaw small)	5 pieces	80 × 15 × 57	52641
U2, (Lower jaw large)	5 pieces	90 × 15 × 66	52642
O1, (Upper jaw small)	5 pieces	80 × 15 × 57	52661
O2, (Upper jaw large)	5 pieces	88 × 15 × 64	52671
sorted (U1, U2, O1, O2 for each piece)	4 pieces	see above	52630

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Duplicating and Hardening

Overview BEGO Duplicating Materials

Duplicating Hydrocolloid & Duplicating Silicone

Overview BEGO Duplicating Materials

Indication	Wirosil®	Wirosil® plus
Investment material	✓✓✓	✓✓✓
Plaster	✓✓✓	✓✓✓
Acrylic casting technique	–	–
Physical data		
Melting temperature	–	–
Processing temperature	Room temperature	Room temperature
Reusability (minimum)	Single use	Single use
Accuracy of fit	✓✓✓	✓✓✓
Setting time (min.)	30–40 min.	10–12 min.
Suitable for microwave	–	–
Hardness / strength	17–20 (Shore-A)	20 (Shore-A)
Color	light blue	medium blue
Availability		
REF (Content)	REF 52001 (2 × 1 kg)	REF 54854 (2 × 1 kg)
	REF 54915 (2 × 5 kg)	REF 54904 (2 × 5 kg)
Accessories		
Combi duplicating flask REF 52090	–	–
Wirosil® Duplicating flask system small REF 52072	✓✓✓	✓✓✓
Wirosil® Duplicating flask system large REF 52083	✓✓✓	✓✓✓

✓✓✓ optimal · ✓✓ recommended · ✓ suitable
[1] When using plaster, use only plaster grade 4
[2] High processing temperature for best stability in the processing of self curing autopolymerisat using for full dentures technique

Wirogel® M	Castogel® / Castogel® mint	Wirodouble®
✓✓✓	✓✓✓	✓✓✓
✓✓[1]	–	–
✓✓	✓	–
96 °C	93 °C	93 °C
54 °C[2]	42 °C (short term 38 °C)	42 °C
15 melting cycles	10–12 melting cycles	10 melting cycles
✓✓✓	✓✓	✓✓
60–90 min.	60–90 min.	60–90 min.
✓✓✓	✓✓✓	–
76 Duro 00	72 Duro 00	69 Duro 00
aquamarine	green	nature
REF 54351 (6 kg)	REF 52052 (6 kg)	REF 52050 (6 kg)
REF 54354 (10 kg)	REF 52049 (10 kg; mint)	
✓✓✓	✓✓✓	✓✓✓
–	–	–
–	–	–

Pictures and illustrations are exemplary. Colors, symbols, design, and information on the labels and/or packaging shown may differ from reality.

WiroGel® M

Environmentally friendly duplicating hydrocolloid based on agar-agar hydrocolloid for producing models using investment material, plaster and the acrylic casting technique

- For universal use: For all phosphate-bonded investment materials and type 4 plasters as well as 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
- Color geared to contrast optimisation, thus ensuring optimal process reliability

Product details

Availability	Contents	REF
WiroGel® M	6 kg tub	54351
WiroGel® M	10 kg tub	54354

Accessories		
Combi duplicating flask	1 set	52090

Castogel® and Castogel® mint

Reversible special duplicating hydrocolloid based on agar-agar

- 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 up to 10–12 melting cycles
- Ecological – completely biodegradable

Product details

Availability	Contents	REF
Castogel®	6 kg tub	52052
Castogel® mint	10 kg tub	52049
Accessories		
Combination duplicating flask	1 set	52090

Wirodouble®

Reversible duplicating hydrocolloid based on agar-agar

- Proven duplicating hydrocolloid for phosphate- or silicate-bonded investment models
- Frequent reusability with up to 10 melting cycles are guaranteed by a high quality standard which makes it a user-friendly and economical product

Product details

Availability	Contents	REF
Wirodouble®	6 kg tub	52050
Accessories		
Combination duplicating flask	1 set	52090

Combi Duplicating Flask

for partial denture technique

- The low thermal conductivity of the plastic guarantees stressfree 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	Dimensions W × H × D (mm)	Contents	REF
1 Combi duplicating flask with wedge top, base and 2 base formers (2 sizes)	90 × 80 × 80 Fill level 55 mm	1 set	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. 5:30 min.
Mixing time	30 sec.
Setting time (22 °C)	30–40 min.
Shore A hardness (1 hr.)	17–20
Recovery following deformation	99.8 %
Contraction (DIN 14356)	0.01 %

Availability	Contents	REF
Single pack Wirosil® 1+2	2 × 1 kg bottle	52001
Large pack Wirosil® 1+2	2 × 5 kg bottle	54915

Accessories		
Aurofilm wetting agent (spray bottle)	100 ml bottle	52019
Wirosil® duplicating flask system	1 set	52083

Wirosil® plus

Duplicating silicone

- Outstanding dimensional stability for extremely precise duplicate models
- 1:1 silicone for manual processing and use in the metering device
- Wirosil® plus has a setting time of just 10 minutes making it ideal for all dental technology work which demands speed as well as uncompromising precision
- Free-flowing consistency and optimal elastic recovery ensure perfect reproduction of combination work with milled surfaces

Product details

Physical data	
Processing time	3:30 min.
Mixing time	30 sec.
Setting time (22 °C)	10–12 min.
Shore A hardness (1 hr.)	20
Recovery following deformation	99.8 %
Contraction (DIN 14356)	0.01 %

Availability	Contents	REF
Single pack Wirosil® plus 1+2	2 × 1 kg bottle	54854
Large pack Wirosil® plus 1+2	2 × 5 kg canister	54904

Accessories		
Aurofilm wetting agent (spray bottle)	100 ml bottle	52019
Wirosil® duplicating flask system	1 set	52083

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	Dimensions W × H × D (mm)	REF
Wirosil® duplicating flask system incl. stabilisation ring with 3 palate formers		
small	90 × 55 × 68	52072
large	105 × 60 × 78	52083

Accessories	
Stabilisation ring with 3 palate formers:	
for small duplicating flask	52079
for large duplicating flask	52084
Wirosil® Stabilisation ring small (10 pieces)	54881
Wirosil® Stabilisation ring large (10 pieces)	54882

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
- Contamination can be easily removed with water
- 25 % saving in time and energy, because a drying temperature of 150 °C is sufficient

Product details

Availability	Contents	REF
Durol E Eco hardening liquid	1 l bottle	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
- Durol: the recommended drying temperature for the duplicate model is 250 °C
- Durofluid: to promote the adhesion of wax moulded parts, investment material models duplicated in silicone can be dried at approx. 70 °C – 100 °C for approx. 10 minutes. The investment material models are then sprayed with a thin and even layer of Durofluid modelling spray

Product details

Availability	Contents	REF
Durol dipping hardener	1 l bottle	52111
Durofluid modelling spray (1 spray bottle)	100 ml bottle	52008

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Modelling

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	REF
Preparation wax, color: red, sheet size 17.5 x 8 cm		
0.5 mm	15 sheets	40036
0.6 mm	15 sheets	40037
0.7 mm	15 sheets	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	REF
Blocking-out wax, color: pink	70 g tin	40032

Pictures and illustrations are exemplary. Colors, symbols, design, and information on the labels and/or packaging shown may differ from reality.

Smooth Casting Wax

for upper jaw partial denture frames

- 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	REF
Smooth casting wax, color: green, Sheet size 17.5 × 8 cm		
0.3 mm	15 sheets	40092
0.4 mm	15 sheets	40093
0.5 mm	15 sheets	40094
0.6 mm	15 sheets	40095

Stippled Casting Wax

for upper jaw partial denture frames

- Tried and tested wax for modelling the bases of upper jaw 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
Stippled casting wax, color: green Sheet size 15 × 7.5 cm			15 sheets
	REF	REF	REF
	1 coarse veined	2 medium veined	3 fine veined
0.4 mm	40170	40193	40220
0.5 mm	40180	40194	40230
0.6 mm	40190	40195	40240

Wax Profiles

for the partial denture technique

- 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	REF
Wax profiles, color: green, length 17 cm		
0.8 mm beading wire	30 g	40261
1.0 mm beading wire	40 g	40263
1.6 × 4.0 mm bars, lower jaw	75 g	40421
1.15 × 1.75 mm clasps, continuous clasps	50 g	40441
2.0 × 4.5 mm casting strips, upper jaw (small bases)	90 g	40462
2.0 × 6.5 mm casting strips, upper jaw	125 g	40461

Anatomical Wax Bar Profiles

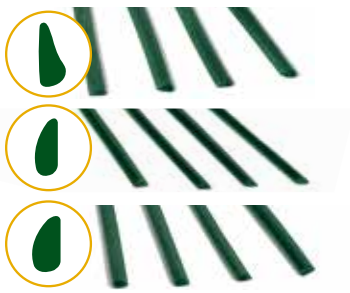
for lower jaw partial denture frames

- The rounded upper edge and concave shape facing the tongue plus the anatomical lower jaw profile make for good patient acceptance
- Three different wax bar profiles for customised shaping of the sublingual bar according to the patient or model status
- The half-teardrop shape of the anatomical wax profile in particular has been tried and tested for many years. It is easy to finish and polish

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	REF
Anatomical wax bar profile, color: green, length 17 cm, 1.8 × 4.2 mm	15 pieces	40075
Small wax bar profile, color: green, length 17 cm, 1.6 × 4.0 mm	75 g	40421
Standard wax bar profile, color: green, length 17 cm, 2.0 × 4.0 mm	85 g	40422



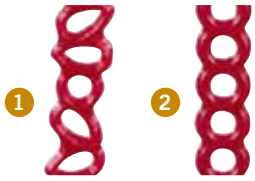
Wax Retentions

for lower jaw partial denture frames

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

Product details

Availability	Contents	REF
Color: red, length: approx. 15 cm		
1 Wax hole retentions	15 pieces	40620
Wax hole retentions (laboratory pack)	150 pieces	40630
2 Wax retentions with round holes	15 pieces	40051
Wax retentions with round holes (laboratory pack)	150 pieces	40052



Wax Grid Retentions

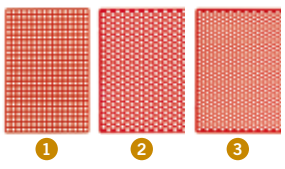
for maxillary partial denture frames

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 + 3 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	REF
Wax grid retentions, color: red		
1 100 × 100 mm	10 pieces	40062
2 for partial upper jaw dentures, 70 × 70 mm	20 pieces	40066
3 for upper-jaw dentures, 70 × 70 mm	20 pieces	40039



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
- Very good acceptance by patients as a result of the slim clasp design
- BEGO wax clasp profiles are very easy to mould, do not bend up and can be easily and securely fixed on the investment model
- BEGO wax clasp profiles help saving time during modelling. The wax shapes can be customised by shortening or lengthening

Product details

Availability	Contents	REF
Wax clasp profiles, color: green, (280 clasps)	10 sheets	40020

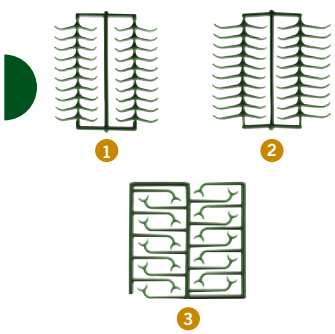
Wax Patterns/Wax Clasp Profile

for the partial denture technique

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

Product details

Availability	Contents	REF
Wax patterns / wax clasp profile color: green (200 clasps)		
1 for premolars	10 sheets	40021
2 for molars	10 sheets	40022
3 for Bonyhard clasps	10 sheets	40024



Wax patterns

Ring clasp profile

- BEGO wax clasp profiles help saving time during modelling. The wax shapes can be customised by shortening or lengthening
- Slender standard clasp profiles for molars

Product details

Availability	Contents	REF
Wax patterns ring clasp profile color: green, for ring clasps (200 clasps)		
curved	10 sheets	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 even 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 enables economizing due to only cutting off the required length
- An opening on 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	REF
Wax wire, medium-hard, color: green		
Ø 2.5 mm, approx. 50 m	250 g roll	40085
Ø 3.0 mm, approx. 36 m	250 g roll	40086
Ø 3.5 mm, approx. 28 m	250 g roll	40087
Ø 4.0 mm, approx. 21 m	250 g roll	40088
Ø 5.0 mm, approx. 17 m	250 g roll	40089

Rapid-Wax-System

compatible with Rapid-Ringless-System

- Time savings as compared to individual sprue system technique
- Secure position and dimensions for good casting results
- Reliable sprue transitions support optimal flow behaviour of the alloy
- Modelling wax that burns without residue
- Compatible with Rapid-Ringless-System

Product details

Availability	Contents	REF
Direct wax sprues		
Ø 5.0 mm with distributor bar	250 pieces	40653

Rapidi

Modelling knife

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

Product details

Availability	Contents	REF
Rapidi modelling knife	1 piece	52270
Rapidi spare blades	40 pieces	52280

Occlusal Wax

for the crown and bridge technique

- Ideal for efficient and aesthetic modelling of occlusal surfaces. BEGO occlusal wax is available in two pastel shades to facilitate the shaping of occlusal surfaces. The choice of shades is a matter of personal preference. The advantage of light pastel shades, as with all BEGO occlusal waxes, is that they provide high-contrast visualisation of waxed-up occlusal surface contours, thereby great facilitating the implementation of occlusal concepts
- A high degree of hardness is necessary when modelling occlusal surfaces in order to prevent compression at the contact points between upper- and lower jaw
- BEGO occlusal wax is very ductile because of its high surface tension. Wax drops form a ball when solidified, enabling even the most delicate occlusal contours to be waxed
- BEGO occlusal waxes do not stain, are not sticky and are very easy to mill. They also meet the highest dental technology standards
- Solidification point approx. 59 °C

Product details

Availability	Contents	REF
Occlusal wax, color: grey	70 g tin	40114
Occlusal wax, color: ivory	70 g tin	40118

Crown Wax

for the crown and bridge technique

- Crown wax hard, colour blue, ensures optimum waxing of all types of crowns
- The balanced shrinkage of BEGO crown and bridge waxes is reduced to a minimum by the selective use of high-quality raw materials and rigorous production management
- BEGO crown wax is particularly suitable for waxing up with either an open flame or an electric wax knife
- Crown wax hard, colour blue, is characterised by optimal scraping properties and short solidification time enabling them to be applied very quickly
- BEGO crown waxes can also be used for inlays thanks to their processing characteristics
- The solidification point of hard crown wax is approx. 61 °C, medium-hard crown wax approx. 60 °C

Product details

Availability	Contents	REF
Crown wax hard: color blue	70 g tin	40111

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Milling Wax

for the crown and bridge technique

- 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
- The solidification temperature of both milling waxes is approx. 62 °C
  Tip: Optimal milling speed in the range 2,500–5,000 rpm (depending on the cutting edge geometry and diameter of the cutter)

Product details

Availability	Contents	REF
Milling wax hard, color green	70 g tin	40113
Milling wax extrahard, color grey	70 g tin	40119

Cervical Wax

for the crown and bridge technique

- BEGO cervical wax for cervical edges in eggplant (aubergine) is a tension-free wax on which extremely high demands are placed during modelling
- BEGO cervical wax is completely tension-free after modelling and is therefore highly recommended for details on cervical edges of crowns, precision parts and as undercut wax of inlays
- The cervical wax burns out leaving no residue, making it suitable for the ceramic pressing technique as well
- Thanks to the finely adjusted formulation and careful monitoring of all raw material properties, the cervical wax undergoes only very slight shrinkage after the individual layers have been applied
- BEGO cervical wax has a very low limit of elasticity, so any deformation only has a plastic effect. This allows safe wafer-thin modelling up to the preparation boundary
- Solidification temperature approx. 62 °C.

Product details

Availability	Contents	REF
Cervical wax, color eggplant	70 g tin	40112

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	REF
Isocera	200 ml bottle	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	REF
Aurofilm	1 l bottle	52015
Aurofilm (spray bottle – for refilling)	100 ml bottle	52019

Adapta Deep-drawing System

for the crown and bridge technique

- Simple and fast deep-drawing of crown 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 crown 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	REF
Adapta deep drawing system comprising: • 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	20500
Adapta deep drawing system intro set comprising: • 1 Forming tub with Adapta mastic • 1 Foil holder • 50 Adapta foils, 0.6 mm • 50 Spacer foils, 0.1 mm	20520

Accessories	Contents	REF
Adapta mastic (spare pack)	1 pack.	20503
Forming tub with Adapta mastic, 1 Forming tub	1 piece	20504
Adapta foil holder	1 piece	20510
Adapta foil dispenser incl. 100 × 0.6 mm	100 pieces	20519
Adapta foil dispenser incl. 200 × 0.1 mm	200 pieces	20521
Adapta Spacer foils, 0.1 mm transparent	200 pieces	20517
Adapta Spacer foils 0.1 mm red	200 pieces	20502
Adapta foils 0.6 mm, transparent	100 pieces	20501

4

Investing

WiroFine

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

- Can be heated rapidly or conventionally to 1,050 °C with ideal expansion values, offers the level of flexibility essential for the modern dental laboratory
- Rapid preheating up to 1,000 °C: Insertion temperature = final temperature – means a time saving of 20 % – 30 % in comparison to investment materials which have to be heated 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 timeconsuming 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
- Free selection of duplicating method:
  - Duplication with hydrocolloid results in good model surfaces and cost effectiveness
  - Combination with silicone duplication (e.g., Wirosil®) facilitates maximum precision and time savings (no hardening necessary)
- Reliable expansion control for excellent fit results thanks to the special liquid BegoSol® K*

Product details

Physical data	
Mixing liquid	BegoSol® K / optional BegoSol®**
Processing time at 20 °C	approx. 3:30 min.
Shelf life in unopened bag	24 months

Material characteristics according to DIN EN ISO 15912	
Beginning of solidification (Vicat time)	6 min.
Compressive strength	11 MPa
Linear thermal expansion	0.8 %
Flowability	approx. 140 mm

Availability	**Contents**	**REF**
WiroFine, 45 × 400 g bag	18 kg carton	54345
WiroFine, 15 × 400 g bag	6 kg carton	54344
WiroFine, 30 × 200 g bag	6 kg carton	54348
The packages do not contain any mixing liquid.		

Accessories		
BegoSol® K mixing liquid	1 l bottle	51120
BegoSol® K mixing liquid	5 l canister	51121
BegoSol® mixing liquid	1 l bottle	51090
BegoSol® mixing liquid	5 l canister	51091

DIN EN ISO 15912

* Is sensitive to freezing· ** BegoSol® (with freeze protectionz,Anti-freeze optimization up to –10 °C) only suitable for conventional preheating
Pictures and illustrations are exemplary. Colors, symbols, design, and information on the labels and/or packaging shown may differ from reality.

Wiroplus® S

Precision partial denture investment material for the silicone duplication technique

- Long processing 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®
Processing time at 20 °C	approx. 4 min.
Shelf life in unopened bag	24 months

Material characteristics according to DIN EN ISO 15912	
Beginning of solidification (Vicat time)	5:30 min.
Compressive strength	18 MPa
Linear thermal expansion	1.2 %
Flowability	approx. 130 mm

Availability	**Contents**	**REF**
Wiroplus® S, 45 × 400 g bag	18 kg carton	50248
The package does not contain any mixing liquid		

Accessories		
BegoSol® mixing liquid	1 l bottle	51090
BegoSol® mixing liquid	5 l canister	51091

DIN EN ISO 15912

* Anti-freeze optimization up to –10 °C

Pictures and illustrations are exemplary. Colors, symbols, design, and information on the labels and/or packaging shown may differ from reality.

Wirovest®

Standard investment material for the partial denture technique

- Classic phosphate-bonded partial denture investment material with particularly good results in the hydrocolloid-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 for assured procurement all year round

Product details

Physical data		
Mixing liquid	BegoSol®	
Processing time at 20 °C	approx. 3 min.	
Shelf life in unopened bag	24 months	
Material characteristics according to DIN EN ISO 15912		
Beginning of solidification (Vicat time)	5 min.	
Compressive strength	15 MPa	
Linear thermal expansion	1.15 %	
Flowability	approx. 115 mm	
Availability	**Contents**	**REF**
Wirovest®, 45 × 400 g bag	18 kg carton	51046
The package does not contain any mixing liquid		
Accessories		
BegoSol® mixing liquid	1 l bottle	51090
BegoSol® mixing liquid	5 l canister	51091

DIN EN ISO 15912

* Anti-freeze optimization up to –10 °C

Pictures and illustrations are exemplary. Colors, symbols, design, and information on the labels and/or packaging shown may differ from reality.

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 processing 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 precisely fitting castings, without the need for timeconsuming 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®
Processing time at 20 °C	3:15 min.
Shelf life in unopened bag	24 months

Material characteristics according to DIN EN ISO 15912	
Beginning of solidification (Vicat time)	approx. 6 min.
Compressive strength	15 MPa
Linear thermal expansion	1.15 %
Flowability	approx. 120 mm

Availability	**Contents**	**REF**
Wirovest® plus, 45 × 400 g bag	18 kg carton	54821
The package does not contain any mixing liquid		

Accessories		
BegoSol® mixing liquid	1 l bottle	51090
BegoSol® mixing liquid	5 l canister	51091

DIN EN ISO 15912

* Anti-freeze optimization up to –10 °C

Pictures and illustrations are exemplary. Colors, symbols, design, and information on the labels and/or packaging shown may differ from reality.

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. This implies time savings and economical usage of blasting materials for the user

Product details

Physical data	
Mixing liquid	BegoSol® HE
Processing time at 20 °C	approx. 4:30–5 min.
Shelf life in unopened bag	24 months

Material characteristics according to DIN EN ISO 15912	
Beginning of solidification (Vicat time)	approx. 10 min.
Compressive strength after 2 hours	4.2–5.1 MPa
Linear thermal expansion	0.85 %
Flowability	approx. 140–145 mm

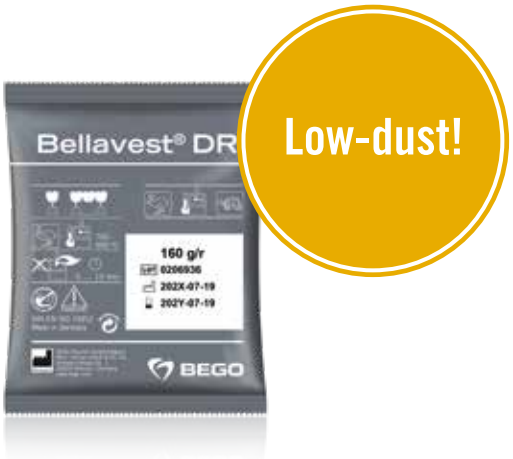
Availability	**Contents**	**REF**
Bellavest® SH, 80 × 160 g bag	12.8 kg carton	54252
Bellavest® SH, 30 × 160 g bag	4.8 kg carton	54247
Bellavest® SH, 144 × 90 g bag	12.96 kg carton	54257
Bellavest® SH, 50 × 100 g bag	5 kg carton	70060
The packages do not contain any mixing liquid		

Accessories		
BegoSol® HE mixing liquid	1 l bottle	51095
BegoSol® HE mixing liquid	5 l canister	51096

DIN EN ISO 15912

* BegoSol® HE is sensitive to freezing.

Pictures and illustrations are exemplary. Colors, symbols, design, and information on the labels and/or packaging shown may differ from reality.



Bellavest® DR

Low-dust, shock heat or conventionally heatable precision casting investment material for crown and bridge techniques

- The new precision crown and bridge investment material Bellavest® DR is characterised by its considerably (up to 80 %) reduced dust creation during processing which in turn contributes to a significant reduction of harmful quartz and cristobalite dust in laboratories
- Bellavest® DR can be heated conventionally or using shock heat at an insertion temperature of up to 900 °C and results in a considerable reduction in the duration of the heating process
- Bellavest® DR has been developed based on tried-and-tested Bellavest investment materials and thus offers simple handling along with optimal parameters of use
- Bellavest® DR is a phosphate-bonded precision casting investment material with a long processing time of approx. 5 minutes for reliable and fatigue-free processing
- Precise expansion control and a fine and creamy consistency ensure smooth casting surfaces and consistent reproducible fit results
- Simple to use with the special mixing liquid BegoSol® HE* for maximum flexibility in conjunction with just a single liquid
- Bellavest® DR cures with a high edge-strength, yet still permits easy deflasking which means time savings and the economic use of blasting materials for the user

Product details

Physical data	
Mixing liquid	BegoSol® HE
Processing time at 20 °C	approx. 5 min.
Shelf life in unopened bag	24 months

Material characteristics according to DIN EN ISO 15912	
Beginning of solidification (Vicat time)	approx. 10 min.
Compressive strength	approx. 5 MPa
Linear thermal expansion	approx. 1.1 %
Flowability	approx. 135–140 mm

Availability	**Contents**	**REF**
Bellavest® DR, 80 × 160 g bag	12.8 kg carton	54861
The package does not contain any mixing liquid		

Accessories		
BegoSol® HE mixing liquid	1 l bottle	51095
BegoSol® HE mixing liquid	5 l canister	51096

DIN EN ISO 15912

* BegoSol® HE is sensitive to freezing.

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. 3:30 min.
Shelf life in unopened bag	24 months

Material characteristics according to DIN EN ISO 15912	
Beginning of solidification (Vicat time)	7:30 min.
Compressive strength	5.5 MPa
Linear thermal expansion	1.1 %
Flowability	approx. 135 mm

Availability	**Contents**	**REF**
BellaStar XL, 80×160 g bag	12.8 kg carton	54362
The package does not contain any mixing liquid		

Accessories		
BegoSol® K mixing liquid	1 l bottle	51120
BegoSol® K mixing liquid	5 l canister	51121

DIN EN ISO 15912

* BegoSol® K is sensitive to freezing.

Pictures and illustrations are exemplary. Colors, symbols, design, and information on the labels and/or packaging shown may differ from reality.

Bellavest® T

The precision casting investment material for the crown and bridge technique

- For precious-metal and non-precious metal alloys
- 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

Product details

Physical data	
Mixing liquid	BegoSol® oder BegoSol® HE
Processing time at 20 °C	approx. 5 min.
Shelf life in unopened bag	24 months

Material characteristics according to DIN EN ISO 15912	
Beginning of solidification (Vicat time)	9:30 min.
Compressive strength	10 MPa
Linear thermal expansion	1.2 %
Flowability	approx. 125 mm

Availability	**Contents**	**REF**
Bellavest® T, 80 × 160 g bag	12.8 kg carton	54202
The package does not contain any mixing liquid		

Accessories		
BegoSol® mixing liquid	1 l bottle	51090
BegoSol® mixing liquid	5 l canister	51091
BegoSol® HE mixing liquid	1 l bottle	51095
BegoSol® HE mixing liquid	5 l canister	51096

DIN EN ISO 15912

* Anti-freeze optimization up to –10 °C
** Alternatively, for greater expansions: BegoSol® HE mixing liquid. BegoSol® HE is sensitive to freezing.
Pictures and illustrations are exemplary. Colors, symbols, design, and information on the labels and/or packaging shown may differ from reality.

Bellasun

The conventionally heatable crown and bridge investment material

- 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

Product details

Physical data		
Mixing liquid	BegoSol®	
Processing time at 20 °C	approx. 7 min.	
Processing time at 30 °C	approx. 4 min.	
Shelf life in unopened bag	24 months	
Material characteristics according to DIN EN ISO 15912		
Beginning of solidification (Vicat time)	13 min.	
Compressive strength	7.5 MPa	
Linear thermal expansion	1.36 %	
Flowability	approx. 155 mm	
Availability	**Contents**	**REF**
Bellasun 80 × 160 g bag	12.8 kg carton	54270
The package does not contain any mixing liquid		
Accessories		
BegoSol® mixing liquid	1 l bottle	51090
BegoSol® mixing liquid	5 l canister	51091

DIN EN ISO 15912

* Anti-freeze optimization up to –10 °C

VarseoVest® P plus

Phosphate-bonded shock-heat precision investment material, especially for casting 3D printed partial denture frames

- Specially developed for the investing of 3D printed partial denture frames
- Creates an excellent fit and smooth surfaces of the cast objects – after each casting and even with pressureless investing
- Outstanding flow properties ensure easy investing even on slender object details; long processing time of more than 4:40 min. enables fatigue-free processing
- The mould is inserted directly into the furnace, which is preheated to 900–950 °C, only 20 min. after investing – for a considerable reduction in the duration of the heating process
- Impressive strength of the investment material ensures that the moulds do not crack or tear as a result of the plastic expanding – which forms the basis for reliable further processing
- Despite its strength, an easy deflasking of the cast object is possible
- Unambiguous expansion control with the special mixing liquid BegoSol® K* ensures reproducible fit results
- Easy application by a comparable processing method to partial denture investment materials

Product details

Physical data	
Mixing liquid	BegoSol® K
Processing time at 21 °C	approx. 4:40 min.
Shelf life in unopened bag	24 months

Material characteristics according to DIN EN ISO 15912	
Beginning of solidification (Vicat time)	approx. 9:50 min.
Compressive strength	approx. 8 MPa
Linear thermal expansion	0.9%
Flowability	145 mm

Availability	Contents	REF
VarseoVest® P plus, 72 × 250 g bag	18 kg carton	54910
VarseoVest® P plus, 60 × 300 g bag	18 kg carton	54911
The packages do not contain any mixing liquid		

Accessories	Contents	REF
BegoSol® K mixing liquid	1 l bottle	51120
BegoSol® K mixing liquid	5 l canister	51121

DIN EN ISO 15912

* BegoSol® K is sensitive to freezing·

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VarseoVest® C&B

Phosphate-bonded shock-heat precision investment material, especially for casting 3D printed crown and bridge frameworks

- Specially developed for the investing of 3D printed crown and brigde frameworks
- Creates an excellent fit and smooth surfaces of the cast objects – after each casting and even with pressureless investing
- Outstanding flow properties ensure easy investing even on slender object details; long working time of more than 3:15 min. enables fatigue-free processing
- The mould is inserted directly into the furnace, which is preheated to 900 °C, only 20 min. after investing – for a considerable reduction in the duration of the heating process
- Impressive strength of the investment material ensures that the moulds do not crack or tear as a result of the plastic expanding – which forms the basis for reliable further processing
- Despite its strength, an easy deflasking of the cast object is possible
- Unambiguous expansion control with the special mixing liquid BegoSol® CC* ensures reproducible fit results
- Easy application by a comparable processing method to crown and brigde investment materials

Product details

Physical data	
Mixing liquid	BegoSol® CC
Processing time at 21 °C	approx. 3:15 min.
Shelf life in unopened bag	24 months

Material characteristics according to DIN EN ISO 15912	
Beginning of solidification (Vicat time)	approx. 5:30 min.
Compressive strength	approx. 5 MPa
Linear thermal expansion	1.3 %
Flowability	140 mm

Availability	**Contents**	**REF**
VarseoVest® C&B, 80 × 160 g bag	12.8 kg carton	54894
The package does not contain any mixing liquid		

Accessories	**Contents**	**REF**
BegoSol® CC mixing liquid	1 l bottle	54907

Mixing liquid BegoSol® CC

DIN EN ISO 15912

* BegoSol® CC is sensitive to freezing.

Pictures and illustrations are exemplary. Colors, symbols, design, and information on the labels and/or packaging shown may differ from reality.

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 – e.g. avoiding undesirable cracks
- 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

Availability	Contents	REF
BegoForm®, 15 x 90 g bag with 1 metering syringe **The packs do not contain any mixing liquid. Please order the liquid and the investment separately.**	1.35 kg carton	52785

Accessories		
BegoForm® mixing liquid	250 ml bottle	52786

BegoSol®

Mixing liquid 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	REF
BegoSol®* Mixing liquid for Wirovest® plus, Wiroplus® S, Wirovest®, Bellavest® T and Bellasun	1 l bottle	51090
BegoSol®*	5 l Kanister	51091
BegoSol® HE** Special-Mixing liquid for Bellavest® SH, Bellavest® DR, Bellavest® T	1 l bottle	51095
BegoSol® HE**	5 l Kanister	51096
BegoSol® K** Special-Mixing liquid for WiroFine, BellaStar XL, VarseoVest® P plus	1 l bottle	51120
BegoSol® K**	5 l Kanister	51121
BegoSol® CC** Special-Mixing liquid for VarseoVest C&B	1 l bottle	54907
Accessories		
Universal measuring cup 100 ml	1 piece	14607

* Anti-freeze optimization up to –10 °C
** Is sensitive to freezing·
Pictures and illustrations are exemplary. Colors, symbols, design, and information on the labels and/or packaging shown may differ from reality.

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	REF
Wiropaint plus	200 ml bottle	51100

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	Contents	REF
Casting ring and base		
Size 1 for up to 100 g of investment material	1 set	52665
Size 3 for up to 180 g of investment material	1 set	52666
Size 6 for 360 g of investment material	1 set	52667

Overview of BEGO Investment Materials

Indications and recommended liquid

Overview of BEGO investment materials

Crowns and bridges





Indication	Bellavest® SH	Bellavest® DR	Bellavest® T	BellaStar XL	Bellasun
Casting non-precious alloys	✓✓✓	✓✓✓	✓✓✓	✓✓	✓✓✓
Double crowns in non-precious alloys	✓✓✓	✓✓✓	✓✓[1]	✓	✓✓✓
Casting precious alloys	✓✓	✓✓	✓✓	✓✓✓	✓✓
Pressable ceramics	✓✓✓	–	–	–	–
Implant prosthodontics	✓✓✓	✓✓✓	✓✓	✓✓✓	✓
CoCr partial-denture duplication with silicone	✓[2]	–	✓[2]	✓[2]	✓[2]
CoCr partial-denture hydrocolloid duplication	–	–	–	–	–
Technical data					
Shock heat	✓✓✓	✓✓✓	–	✓✓✓	–
Conventional	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓
Processing time[3] (20°C) [min]	4:30–5:00	5:00	5:00	3:30	7:00
Flowability [mm]	140–145	135–140	approx. 125	approx. 135	approx. 155
Availability					
Accessories (contents)	REF 54257 144 × 90 g bag REF 70060 50 × 100 g bag REF 54252 80 × 160 g bag REF 54247 30 × 160 g bag	REF 54861 80 × 160 g bag	REF 54202 80 × 160 g bag	REF 54362 80 × 160 g bag	REF 54270 80 × 160 g bag
Accessories					
BegoSol®[5] mixing liquid REF 51090 (1 liter) REF 51091 (5 liter)	–	–	✓✓✓	–	✓✓✓
BegoSol® HE[6] mixing liquid REF 51095 (1 liter) REF 51096 (5 liter)	✓✓✓	✓✓✓	✓✓✓	–	–
BegoSol® K[6] mixing liquid REF 51120 (1 liter) REF 51121 (5 liter)	–	–	–	✓✓✓	–
BegoSol® CC[6] mixing liquid REF 54907 (1 liter)	–	–	–	–	–

✓✓✓ optimal · ✓✓ recommended · ✓ suitable

[1] with BegoSol® HE · [2] lift-off procedure · [3] after mixing · [4] only conventional · [5] Anti-freeze optimization up to –10 °C · [6] Sensitive to freezing

Partial dentures				3D-CAD/Cast®-frames	
					
WiroFine	**Wiroplus® S**	**Wirovest®**	**Wirovest® plus**	**VarseoVest® P plus**	**VarseoVest® C&B**
–	–	–	–	✓✓	✓✓✓
–	–	–	–	–	–
✓	✓✓	✓	✓	–	✓✓
–	–	–	–	–	–
–	–	–	–	–	✓✓
✓✓✓	✓✓✓	✓✓	✓✓	✓	–
✓✓	–	✓✓✓	✓✓✓	–	–
✓✓✓	–	–	–	✓✓✓	✓✓✓
✓✓✓	✓✓✓	✓✓✓	✓✓✓	–	✓✓
3:30	4:00	3:00	3:15	4:40	3:15
approx. 140	approx. 130	approx. 115	approx. 120	approx. 145	approx. 140
REF 54348 30 × 200 g bag	REF 50248 45 × 400 g bag	REF 51046 45 × 400 g bag	REF 54821 45 × 400 g bag	REF 54910 72 × 250 g bag	REF 54894 80 × 160 g bag
REF 54345 45 × 400 g bag				REF 54911 60 × 300 g bag	
REF 54344 15 × 400 g bag					
✓✓✓[4]	✓✓✓	✓✓✓	✓✓✓	–	–
–	–	–	–	–	–
✓✓✓	–	–	–	✓✓✓	–
–	–	–	–	–	✓✓✓

Pictures and illustrations are exemplary. Colors, symbols, design, and information on the labels and/or packaging shown may differ from reality.

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

Product details

Availability	Contents	REF
Fleecy inlay strips for moulds		
45 mm	3 × 30 m	52408

Funnel Formers

for partial denture technique

- Prefabricated funnel moulds reduce the effort required for spruing and embedding
- Universal funnel former for partial denture work – matches all BEGO casting systems

Product details

Availability	Contents	REF
Funnel formers, Ø 40 mm	100 pieces	52068

BEGO Mould Formers

for the partial denture technique

- 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	REF
Mould former, small, red	4 pieces	52390
Mould former, large, blue	4 pieces	52400

5

Precious-metal Alloys

Bio PontoStar® XL

Bio PontoStar® XL
- High-gold alloy for conventional ceramic
- Yellow color – for aesthetic and high-quality restorations
- Copper-free – also suitable for sensitive patients
- Biocompatible and corrosion-resistant
- Also available as CAD/Cast Alloy

PontoLloyd® G

PontoLloyd® G
- High-gold alloy
- Yellow color – for aesthetic and high-quality restorations
- With indium – for reliable ceramic veneering
- Copper-free – also suitable for sensitive patients
- Biocompatible and corrosion-resistant
- Also available as CAD/Cast Alloy

Pontonorm

Pontonorm
- High-gold, universal alloy
- Yellow color – for aesthetic and high-quality restorations
- Wide range of indications – to be used by all common low-melting and high-expendable ceramics or composites
- Biocompatible and corrosion-resistant
- Also available as CAD/Cast Alloy

ECO d'OR

ECO d'OR
- Universal alloy with reduced gold content
- Also suitable for veneering with LFC materials
- Biocompatible and corrosion-resistant
- Also available as CAD/Cast Alloy

BegoPal® 300

BegoPal® 300

- Wide range of indications (according to ISO 22674)
- Copper-free – ideal for sensitive patients
- Alloyed with gold and silver – excellent melting, flow and soldering properties
- Biocompatible and corrosion-resistant
- Also available as CAD/Cast Alloy

BegoPal® S

BegoPal® S

- Suitable for veneering with composites and conventional ceramics
- Copper-free – ideal for sensitive patients
- Light-colored oxide – greater reliability in the coloration of the ceramic
- Biocompatible and corrosion-resistant
- Also available as CAD/Cast Alloy

BEGO Gold

Alloy	Also as CAD/ Cast®	Biocer- tificate	Standards ISO	REF	Type according to ISO 22674	BEGO color code no.	Composition in % by mass (x = < 1 %)								Other elements (< 1 %)	Density g/cm³	Vickers hardness HV 5
							Au	Pt	Pd	Ag	Cu	Sn	Zn	In			
Alloys for conventional ceramics																	
Bio PontoStar® XL	✓	✓	9693 + 22674	61140	4	5	86,0	11,5	–	–	–	–	1,6	×	Fe · Rh	18,1	175
Bio PontoStar®	✓	✓	9693 + 22674	61104	4	5	86,7	10,7	–	–	–	–	1,5	×	Mn · Rh Ta	18,3	180
PontoStar® G		✓	9693 + 22674	61046	4	4	85,5	11,4	–	–	–	–	–	2,3	Fe · Rh	17,9	130
PontoLloyd® G	✓	✓	9693 + 22674	61106	4	6	84,4	8,0	5,0	–	–	–	–	2,5	Ta	17,6	185
PontoLloyd® P	✓	✓	9693 + 22674	61087	4	8	77,5	9,9	8,9	1,0	×	×	–	1,4	Fe · Ir	16,9	185
BegoCer® G		✓	9693 + 22674	61097	4	8	51,5	–	38,4	–	–	–	–	8,7	Ga 1,3 Ru	13,8	195
BegoStar®	✓	✓	9693 + 22674	61080	4	8	54,0	–	26,5	15,5	–	2,4	–	1,4	Re · Ru	13,8	180
BegoStar® ECO		✓	9693 + 22674	61121	4	8	15,0	–	51,9	23,0	–	4,0	–	6,0	Ru	11,4	195
BegoPal® 300	✓	✓	9693 + 22674	61105	4	8	6,0	–	75,2	6,2	–	–	–	6,3	Ga 6,0 Re · Ru	11,2	265
BegoPal® S	✓	✓	9693 + 22674	61086	4	8	–	–	57,5	31,5	–	9,0	–	1,9	Re · Ru	10,7	245
Alloys for high-expanding ceramics (low-fusing dental ceramics)																	
Bio PlatinLloyd®	✓	✓	9693 + 22674	61125	4	4	74,9	7,8	–	14,9	–	–	2,2	–	Mg · Mn Rh	16,1	165
Pontonorm	✓	✓	9693 + 22674	61126	4	3	73,8	9,0	–	9,2	4,4	–	2,0	1,5	Ir	16,1	200
PlatinLloyd® KF		✓	9693 + 22674	61025	4	4	72,8	2,0	5,7	16,1	–	–	3,0	–	Ir · Mn Rh	15,3	245
AuroLloyd® KF	✓	✓	9693 + 22674	61052	4	6	55,0	–	10,0	29,3	–	1,0	1,2	3,5	Re · Ru	13,5	205
ECO d'OR	✓	✓	9693 + 22674	61112	4	6	38,1	–	13,0	40,5	–	–	–	8,0	Mn · Ta	12,0	200
BegoStar® LFC	✓	✓	9693 + 22674	61107	4	8	×	–	35,0	59,6	–	1,0	4,0	–	Ru · Zr	10,3	175
Alloys for crowns and bridges (only suitable for veneering with composite)																	
PlatinLloyd® 100	✓	✓	22674	61020	4	3	72,0	3,5	–	13,7	9,8	–	×	–	Ir	15,0	225
PlatinLloyd® M	✓		22674	61009	4	4	70,0	5,0	1,0	11,7	10,0	–	1,9	×	Re	14,8	255
AuroLloyd® M			22674	61054	4	5	54,0	1,0	5,0	29,0	8,0	–	1,0	1,9	Ir	13,2	260
ECO alloys for conventional ceramics																	
BEGO EcoLine K	✓	✓	9693 + 22674	61122	4	8	–	–	57,5	31,5	–	9,0	–	2,0	Re · Ru	10,7	245
ECO alloys for high-expanding ceramics (low-fusing dental ceramics)																	
BEGO EcoLine AU	✓	✓	9693 + 22674	61124	4	7	38,2	–	13,0	40,5	–	–	–	8,0	Mn · Ta	12,0	200
BEGO EcoLine LFC	✓	✓	9693 + 22674	61123	3	8	×	–	35,0	59,6	–	1,0	4,0	–	Ru · Zr	10,3	175

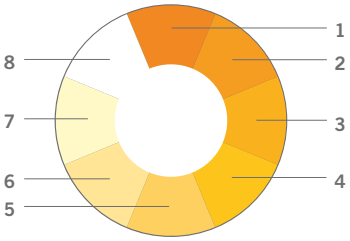
Types according to ISO 22674

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.

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

0.2 % Proof strength ($R_{p0.2}$) MPa	Elongation after fracture (A_5) %	Modulus of elasticity GPa	Solidus; liquidus temperature °C	Casting temperature approx. °C	Preheating temperature °C	CTE 25–500 °C 10^{-6} K^{-1}	Oxide firing °C	min.	with vakuum	Wire for laser welding	Solders (REF) ● Before firing ■ After firing
405	3	92	1.020, 1.090	1.270	850	14,1/*14,0	900	5	✓	Bio PontoStar® XL wire (61167)	● PontoStar® G solder (61045/1.030°C) ■ BEGO-Gold solder I (61017/800°C)
425	4	99	1.035, 1.140	1.270	850	14,1/*14,2	950	10	–	Bio PontoStar® wire (61157)	● PontoStar® G solder (61045) ■ BEGO-Gold solder I (61017)
290	7	89	990, 1.100	1.250	850	14,2/*14,1	950	10	–	PontoStar® G wire (61150)	● PontoStar® G solder (61045) ■ BEGO-Gold solder I (61017)
440	7	93	1.085, 1.160	1.370	850	13,7/*13,8	960	10	–	PontoStar® G wire (61150)	● PontoStar® G solder (61045) ■ BEGO-Gold solder I (61017)
430	7	103	1.145, 1.240	1.380	850	13,9/*13,6	960	10	–	PontoLloyd® P wire (61154)	● BegoStar® solder (61081/1.160°C) ■ BEGO-Gold solder I (61017/800°C)
430	16	153	1.140, 1.310	1.450	850	13,2/*13,1	960	2–3	–	BegoCer® G wire (61164)	● BegoStar® solder (61081) ■ BEGO-Gold solder I (61017)
400	12	116	1.245, 1.270	1.420	850	14,3/*14,3	960	10	–	BegoCer® G wire (61164)	● BegoStar® solder (61081) ■ BEGO-Gold solder I (61017)
385	11	160	1.245, 1.310	1.430	850	14,2/*14,1	960	2–3	–	BegoStar® ECO wire (61171)	● BegoStar® solder (61081) ■ BEGO-Gold solder I (61017)
485	34	122	1.120, 1.310	1.390	850	13,5/*13,7	960	2–3	–	BegoPal® 300-wire (61165)	● BegoStar® solder (61081) ■ BEGO-Gold solder I (61017)
510	5	120	1.210, 1.270	1.450	850	14,4/*14,4	960	10	–	BegoPal® 300-wire (61165)	● BegoStar® solder (61081) ■ BEGO-Gold solder I (61017)
295	7	110	985, 1.050	1.250	700	15,4/*15,6	780	10	–	Bio PlatinLloyd® wire (61161)	● PontoRex® solder (61038/880°C) ■ PontoRex® solder (61039/710°C)
430	5	93	900, 980	1.150	700	15,8/*15,8	780	5	✓	Pontonorm wire (61172)	● PontoRex® solder (61038) ■ PontoRex® solder (61039)
560	4	109	990, 1.090	1.200	750	15,3/*15,7	800	10	–	PlatinLloyd® KF wire (61158)	● PontoRex® solder (61038) ■ PontoRex® solder (61039)
480	3	114	950, 1.060	1.230	700	16,3/*16,5	800	10	–	AuroLloyd® KF-wire (61153)	● PontoRex® solder (61038) ■ PontoRex® solder (61039)
435	4	99	975, 1.040	1.200	700	16,8/*16,9	800	5	–	ECO d'OR wire (61170)	● PontoRex® solder (61038) ■ PontoRex® solder (61039)
340	11	126	1.080, 1.140	1.300	700	16,2/*16,1	780	10	–	ECO d'OR wire (61170)	● PontoRex® solder (61038) ■ PontoRex® solder (61039)
470	14	103	900, 925	1.050	700	–	–	–	–	PlatinLloyd® 100-wire (61152)	BEGO-Gold solder I (61017/800°C) BEGO-Gold solder II (61043/770°C)
560	6	114	890, 940	1.020	700	–	–	–	–	PlatinLloyd® M-wire (61155)	BEGO-Gold solder I (61017) BEGO-Gold solder II (61043)
500	10	93	870, 930	1.100	700	–	–	–	–	PlatinLloyd® M-wire (61155)	BEGO-Gold solder I (61017) BEGO-Gold solder II (61043)
510	5	120	1.210, 1.270	1.450	850	14,4/*14,4	960	10	–	BegoPal® 300-wire (61165)	● BegoStar® solder (61081/1.160°C) ■ BEGO-Gold solder I (61017/800°C)
435	4	99	975, 1.040	1.200	700	16,8/*16,9	800	5	–	ECO d'OR wire (61170)	● PontoRex® solder 61038/880°C) ■ PontoRex® solder (61039/710°C)
340	11	126	1.080, 1.140	1.300	700	16,2/*16,1	780	10	–	ECO d'OR wire (61170)	● PontoRex® solder (61038) ■ PontoRex® solder (61039)

The specified data are standard. Subject to change.



The BEGO Color Code
The areas of colors within the characteristic fields approximately correspond to the intensity of the alloy colors.

* Measured value after simulated ceramic firing

6

Non-precious Metal Alloys

Non-precious cobalt-chrome crown and bridge alloys

Wirobond® 280

The non-precious premium alloy for more than 15 years

- Wirobond® 280 is setting standards in the non-precious bonding alloy segment. The low Vickers hardness of 280 HV10 and a very good machineability facilitate processing
- High corrosion resistant thanks to the interaction of the indispensable elements chrome, tungsten and molybdenum
- Very good melting and casting properties
- No prolonged cooling necessary*, even with large spans, due to optimised coefficient of thermal expansion
- Secure bonding with ceramics
- High strength of the alloy for safe processing even of the large span size of bridges
- Reliable processing in accordance with the proven BEGO system
- Biocompatible and corrosion-resistant

Wirobond® C

Cobalt-chrome metal-to-ceramic alloy

- 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

Wirobond® SG

Cobalt-chrome metal-to-ceramic alloy

- Nickel- and beryllium-free
- High strength of the alloy for safe processing even of the large span size of bridges
- Very good melting and casting properties
- Reliable metal-ceramic bond with no need for an additional, expensive bonder
- Biocompatible and corrosion-resistant

* Exceptions: Creation (Willi Geller), Reflex® (Wieland Dental + Technik GmbH & Co. KG)
A detailed brochure, instructions for use and our biocertificate can be found at www.bego.com/download-center.
Pictures and illustrations are exemplary. Colors, symbols, design, and information on the labels and/or packaging shown may differ from reality.

Non-precious nickel-chrome crown and bridge alloys

Wiron® light

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

- Simple casting, easy finishing, reliable working
- Very good melting and casting properties
- The oxide of Wiron® light is considerably lighter in color in comparison to conventional NiCr alloys and can be removed very quickly and easily
- The lower casting temperature of 1,350 °C and the preheating temperature of 800 °C reduce the reaction of alloy with investment. This results in a smooth surface and easy processing
- Safe metal-ceramic bond
- Corrosion resistant thanks to the interaction of the indispensable elements chrome and molybdenum

Non-precious cobalt-chrome crown and bridge alloys for LFC ceramics

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 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

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Non-precious alloys for veneering with ceramic and composites

Non-precious alloys

Guide values	Wirobond® 280	Wirobond® C	Wirobond® SG	Wirobond® LFC	Wiron® light
BEGO Color Code*	8	8	8	8	8
Type (ISO 22674)	4	4	4	5	4
Density g/cm³	8.6	8.5	8.6	7.9	8.2
Preheating temperature °C approx.	900–1,000	900–1,000	900–1,000	900–1,000	800
Solidus; liquidus temperature °C	1,355, 1,430	1,360, 1,420	1,385, 1,420	1,335, 1,435	1,210, 1,280
Casting temperature °C approx.	1,500	1,500	1,480	1,480	1,350
CTE 25–500 °C	14.3/**14.1	14.1/**14.1	14.3/**14.1	15.4/**15.6	13.7/**13.4
Elongation after fracture (A_5) %	9/**5	14/**8	11/**6	13/**8	9/**8
0.2 % Proof strength ($R_{p\,0,2}$) MPa	475/**500	415/**395	390/**405	585/**650	440/**425
Modulus of elasticity	221/**214	225/**222	220/**246	203/**201	216/**217
Vickers hardness HV10	280/**315	315/**320	305/**310	315/**360	305/**300
Composition in %					
Nickel (Ni)	–	–	–	–	64.6
Cobalt (Co)	60.2	63.3	63.8	33.9	–
Chromium (Cr)	25.0	24.8	24.8	28.5	22.0
Molybdenum (Mo)	4.8	5.1	5.1	5.0	10.0
Tungsten (W)	6.2	5.3	5.3	–	–
Silicon (Si)	×	1.0	1.0	1.0	2.1
Niobium (Nb)	–	–	–	–	×
Iron (Fe)	–	–	–	30.0	–
Manganese (Mn)	×	–	–	1.0	×
Cerium (Ce)	–	×	–	–	–
Carbon (C)	–	–	–	×	–
Nitrogen (N)	–	–	–	×	–
Gallium (Ga)	2.9	–	–	–	–
Boron (B)	–	–	–	–	×
Availability	**REF**	**REF**	**REF**	**REF**	**REF**
250 g	50135	50116	50127	50256	50272
1.000 g	50134	50115	50128	50255	50270
Accessories					
4 g	Wirobond® solder (REF 52622) Wiroweld, CoCr laser wire, carbon-free, Ø 0.35 mm (REF 50003) Wiroweld, CoCr laser wire, carbon-free, Ø 0.5 mm (REF 50005)				

* See BEGO Color code on page 57
** Measured value after simulated ceramic firing

Wironit®

The classic partial denture alloy for clasp partial dentures

- Successful worldwide since 1953 and as a type 5 alloy fulfils all criteria of the ISO 22674 standard
- Simple processing thanks to reliable casting time detection
- High stability for easy clasps activation
- Biocompatible and corrosion-resistant

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 very good laser welding properties even in extreme cases
- Low thermal conductivity means high wearing comfort for the patient
- Thanks to the high elongation of fracture, clasps can be activated without any problem
- Biocompatible and corrosion-resistant

Wironit® extrahart

The ideal partial denture alloy for combination work

- Due to its high alloy strength, ideally suited for combination work
- The composition enables a reliable determination of the casting time
- Controlled carbon content ensures very good laser welding properties
- Biocompatible and corrosion-resistant

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Partial Denture Alloys

Wironit®

Alloy characteristics	Wironit®	Wironit® extrahart	Wironit® LA
BEGO Color Code*	8	8	8
Type (gemäß ISO 22674)	5	5	5
Density	8.3 g/cm³	8.2 g/cm³	8.2 g/cm³
Preheating temperature approx.	950–1,050 °C	950–1,050 °C	950–1,050 °C
Solidus temperature, liquidus temperature	1,260, 1,400 °C	1,270, 1,400 °C	1,285, 1,390 °C
Casting temperature approx.	1,460 °C	1,420 °C	1,450 °C
Modulus of elasticity	220 GPa	238 GPa	232 GPa
0.2 % Proof strength ($R_{p0,2}$)	520 MPa	515 MPa	650 MPa
Elongation after fracture (A_5)	7 %	7 %	8 %
Vickers hardness	360 HV10	385 HV10	365 HV10
Qualified analysis in % by mass			
Co	64.0	63.0	63.5
Cr	28.5	30.0	29.0
Mo	5.0	5.0	5.5
Other	Si 1.0 · Mn 1.0 · C	Si 1.0 · Mn 1.0 · C	Si 1.2 · C · Mn · N · Ta

Availability	Contents	REF
Wironit®	1 kg	50030
Wironit® extrahart	1 kg	50060
Wironit® LA	1 kg	50100
Accessories		
Wiroweld, CoCr laser wire, carbon-free, Ø 0.35 mm	2 m – 1.5 g	50003
Wiroweld, CoCr laser wire, carbon-free, Ø 0.5 mm	1.5 m – 2 g	50005
Cobalt-chrome solder	4 g	52520

* See BEGO Color code on page 57

WIRONIUM® plus

Premium 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
- Low thermal conductivity means high wearing comfort for the patient
- The high elongation limit minimises the danger of clasp fractures
- Controlled carbon content and the addition of tantalum ensure very good laser welding properties
- Biocompatible and corrosion-resistant

WIRONIUM®

Cobalt-chrome partial denture alloy

- Successful worldwide since 1972 and as a type 5 alloy fulfills all criteria of the ISO 22674 standard
- Controlled carbon content ensures very good laser welding properties
- Biocompatible and corrosion-resistant

WIRONIUM® extrahart

Cobalt-chrome partial denture alloy

- Greater strength than Wironium®, therefore also suitable for combination work
- Increased elongation limit and high modulus of elasticity for resistance against possible deformations caused by chewing forces
- Controlled carbon content ensures very good laser welding properties
- Biocompatible and corrosion-resistant

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Partial Denture Alloys

WIRONIUM®

Alloy characteristics	WIRONIUM® plus	WIRONIUM®	WIRONIUM® extrahart
BEGO Color Code*	8	8	8
Type (gemäß ISO 22674)	5	5	5
Density	8.3 g/cm³	8.2 g/cm³	8.2 g/cm³
Preheating temperature approx.	950–1,050 °C	950–1,050 °C	950–1,050 °C
Solidus temperature, liquidus temperature	1,260, 1,390 °C	1,310, 1,410 °C	1,310, 1,410 °C
Casting temperature approx.	1,440 °C	1,440 °C	1,450 °C
Modulus of elasticity	246 GPa	233 GPa	243 GPa
0.2 % Proof strength ($R_{p0,2}$)	675 MPa	625 MPa	650 MPa
Elongation after fracture (A_5)	12 %	13 %	13 %
Vickers hardness	350 HV10	345 HV10	350 HV10
Qualified analysis in % by mass			
Co	62.5	63.0	61.0
Cr	29.5	29.5	30.0
Mo	5.0	5.0	5.0
Other	Mn 1.5 · Si 1.0 · C · N · Ta	Si 1.0 · C · Mn · N	Mn 2.0 · Si 1.0 · C · N

Availability	Contents	REF
WIRONIUM®	1 kg	50065
WIRONIUM® extrahart	1 kg	50175
WIRONIUM® plus	1 kg	50190

Accessories	Contents	REF
Wiroweld, CoCr laser wire, carbon-free, Ø 0.35 mm	2 m – 1.5 g	50003
Wiroweld, CoCr laser wire, carbon-free, Ø 0.5 mm	1.5 m – 2 g	50005
Cobalt-chrome solder	4 g	52520

* See BEGO Color code on page 57

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

Composition in % by mass
Cu 87.0 · Sn 12.0 · Co 1.0

Alloy characteristics	Standard values
Density	8.8 g/cm³
Preheating temperature approx.	700 °C
Solidus; liquidus temperature	815; 985 °C
Casting temperature approx.	1,200 °C
Modulus of elasticity	95 GPa
0.2 % Proof strength ($R_{p0,2}$)	250 MPa
Elongation after fracture (A_5)	50 %
Vickers hardness	120 HV5

Availability	Contents	REF
Talmi	1 g	50220

7

CAD/CAM Materials (incl. resins)

Mediloy® S-Co

The non-precious alloy for the production of dental restorations

Mediloy® S-Co is a type 5 cobalt-based dental alloy – Composition of cobalt, chrome, wolfram and molybdenum – especially developed for the SLM production process. The alloy is suitable for the production of dental restorations from metal powders and offers a wide range of indications:

- Crowns & bridges (including metal ceramic)
- Partial denture frameworks
- Implant prosthesis
- Orthodontic applications

Compatible for processing on SLM systems from e.g. Renishaw, Trumpf, Nikon SLM, EOS and Concept Laser.

- **Optimal, reproducible production results** thanks to the special development of the metal powder for the additive production of crown and bridge frameworks
- **Excellent flow properties during the production process** with its homogeneous particle shape and distribution
- **High level of patient safety and legal security for the laboratory and/or production centre** afforded by the approval as a class IIb* medical device
- **Smooth and cavity-free framework surface** thanks to the homogeneous, pore-free structure
- **The required material parameters are achieved** thanks to specially adjusted heat treatment
- **Extremely stable construction even in long-span bridges** with its high proof- and tensile strength
- **Very comfortable for the patient to wear** thanks to low heat conductivity (sensitivity to heat/cold)
- **Economical and effective approach in the dental laboratory** due to normal cooling after ceramic firing – thanks to the coefficient of thermal expansion (CTE) of 14.0 (25–500 °C, 10^{-6} K^{-1})
- **Best possible allergy safety** with its biocompatible and corrosion resistant materials – free from nickel, cadmium and beryllium

Product details

Composition in % by mass
Co 63,9 · Cr 24,7 · W 5,4 · Mo 5,0 · Si 1,0

Availability	Contents	REF
Mediloy® S-Co	5 kg bottle	50551

Physical material data	Standard values
Standards	ISO 22674 and ISO 9693
Particle size [µm]	10–45
Particle shape	round/spherical
Type acc. to ISO 22674	5**
Solidus-/liquidus temperature [°C]	1,390 °C/1,425 °C
Density [g/cm³]	8.6**
Modulus of elasticity [GPa]	228/238**
0,2 % proof strength [MPa]	1,000/755**
Elongation at fracture A_5 [%]	8/5**
Hardness [HV10]	470/425**
Colours	white***
CTE 25–500 °C, 10^{-6} K^{-1}	14.0/13.7**
N	–

* Class IIb medical device according to Council Directive "Medical Devices Directive" 93/42/EEC.
** simulated ceramic firings/stress relieving 800 °C
*** See BEGO Color code on page 57
Pictures and illustrations are exemplary. Colors, symbols, design, and information on the labels and/or packaging shown may differ from reality.

Mediloy® RPD*

Type 5 cobalt-based alloy for laser melting of partial denture frameworks

- **High level of patient safety** provided by applying decades of casting alloy innovations to additive manufacturing powder alloys
- **Ideal material properties of the manufactured framework** specifically for additive production of partial denture frameworks
- **Reproducible production due to homogeneous particle shape and distribution**
- **Very good flow properties during production** afforded by the ideal spherical particle shape
- **High level of patient safety and legal security for the laboratory and/or production centre** due to the approval as a class IIa* medical device
- **Very good fit even in complex situation** ensured by the specially adjusted heat treatment
- **Optimal activation of the clasps** thanks to the optimal ductility of the material
- **High fatigue strength** thanks to the homogeneous and pore-free material structure
- **High economic efficiency** through digital CAD design and CAM production

Compatible for processing on SLM systems from e.g. Renishaw, Trumpf, EOS, Profeta und 2OneLab.

7

Product details

Composition in % by mass
Co 66.2 · Cr 28.2 · Mo 5.5 · N<0.1

Availability	Content	REF
Mediloy® RPD*	5 kg bottle	50532

Physical material data	Standards values
Standards	ISO 22674
Particle size [µm]	10–45
Particle shape	round/spherical
Type acc. to ISO 22674	5**
Solidus-/liquidus temperature [°C]	1,380 °C/1,420 °C
Density [g/cm³]	8.5**
Modulus of elasticity [GPa]	235**
0,2 % proof strength [MPa]	800**
Elongation at fracture A_5 [%]	13**
Hardness [HV10]	395**
Colours	white***
CTE 25–500 °C, 10^{-6} K^{-1}	–
N	N<0.1

* Class IIa medical device according to Council Directive “Medical Devices Directive” 93/42/EEC.
** simulated ceramic firings/stress relieving 800 °C
*** See BEGO Color code on page 57
Pictures and illustrations are exemplary. Colors, symbols, design, and information on the labels and/or packaging shown may differ from reality.

Thermoplastic Milling Blanks

Made of BEGO PMMA Splint E

Milling blanks made of BEGO PMMA Splint E are characterized by a thermoplastic flexibility with thermal memory effect. Due to the industrial production process the highest material homogeneity is achieved, which guarantees outstanding long-term stability. The use of CAD/CAM technology also ensures a safe process because mixing errors (e. g. by hand mixing) are eliminated. The special material properties result in a highly precise adaptation to the dental bite situation and an exceptional, tension-free comfort for the patient. Furthermore, the self-adjusting bite splint is extremely fracture-proof and has a high optical transparency.

- High and precise adaptation to the dental bite situation
- Exceptional, tension-free functional comfort for the patient by thermal memory effect
- Self-adjusting
- Extremely fracture-proof
- Highest thermomemory effect on market (returns to original shape between uses)
- High optical transparency
- No adverse taste

Product details

Chemical composition	
Poly(m)ethylacrylate and cross-linking copolymers of methacrylic acid	> 90 %
1.2-cyclohexane dicarboxylic acid diisononyl ester	< 10 %

Material data	Standard values
Flexural strength (23°C)	> 20 MPa
Flexural strength (37°C)	< 20 MPa
Self-alignment (37 °C)	> 95 %
Density	approx. 1.1 – 1.2 g/cm3
Color	transparent

Availability	Diameter	Contents	REF
Milling blank PMMA Splint E [20mm]	98,5 mm	1 piece	71200
Milling blank PMMA Splint E [16mm]	98,5 mm	1 piece	71201

Further information on our complete CAD/CAM portfolio can be found on www.bego.com/cad-cam-solutions/ and in our catalogue „CAD/CAM Products“ (REF 800160)
Pictures and illustrations are exemplary. Colors, symbols, design, and information on the labels and/or packaging shown may differ from reality.

Mediloy® M-Co

The BEGO cobalt-chrome milling blanks

- Outstanding millability
- Type 4 alloy (according to ISO 22674)
- Biocompatible and corrosion-resistant like all BEGO alloys*
- Special heat treatment makes it particularly easy to mill
- Reduced hardness of 290 HV10 enables easier polishing
- Homogeneous structure – no cavities or porosities
- Available without shoulder: heights 8 and 10 mm
- With shoulder: heights 12, 14, 16, 18, 20, 22, 25 mm
- Approved for crowns and bridges, metal-ceramics as well as implant prosthetics

Product details

Composition in % by mass
Co 63.8 · Cr 24.8 · W 5.3 · Mo 5.1 · Si 1.0

Alloy characteristics	Standard values
Type (accord. to ISO 22674)	4
Density	8.3 g/cm³
Modulus of elasticity	233 GPa
0.2 % Proof strength ($R_{p\,0.2}$)	415 MPa
Elongation after fracture (A_5)	35 %
Vickers hardness	290 HV10
Coefficient of thermal expansion (CTE) 25–500 °C, 10^{-6} K^{-1}	14.3

Availability	Diameter	Contents	REF
Mediloy® M-Co 8 mm	98,0 mm	1 piece	50939
Mediloy® M-Co 10 mm	98,0 mm	1 piece	50940
Mediloy® M-Co 12 mm with shoulder	98,0 mm	1 piece	50951
Mediloy® M-Co 14 mm with shoulder	98,0 mm	1 piece	50952
Mediloy® M-Co 16 mm with shoulder	98,0 mm	1 piece	50953
Mediloy® M-Co 18 mm with shoulder	98,0 mm	1 piece	50954
Mediloy® M-Co 20 mm with shoulder	98,0 mm	1 piece	50955
Mediloy® M-Co 22 mm with shoulder	98,0 mm	1 piece	50956
Mediloy® M-Co 25 mm with shoulder	98,0 mm	1 piece	50957

* Biocertificates can be found online at bego.com
Further information on our complete CAD/CAM portfolio can be found on www.bego.com/cad-cam-solutions/ and in our catalogue „CAD/CAM Products“ (REF 800160)
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Mediloy® M-Ti4

The BEGO pure titanium milling blanks

- Improved surface with further optimized cutting ability
- Biocompatible and corrosion-resistant, nickel-, cadmium and beryllium-free
- Low hardness of 225 HV10 allows very easy polishing
- Available with shoulder: heights 12, 14, 16, 18, 20, 22, 25 mm
- Scope of application:
  - Metal-ceramic crowns and bridges
  - Abutments
  - Bars

Product details

Composition in % by mass
Ti 100.0

Alloy characteristics	Standard values
Type (accord. to ISO 22674)	4
Density	4.5 g/cm³
Modulus of elasticity	120 GPa
0.2 % proof strength ($R_{p\,0.2}$)	635 MPa
Elongation after fracture (A_5)	20 %
Vickers hardness	225 HV10
Coefficient of thermal expansion (CTE) 25–500 °C, 10^{-6} K^{-1}	9.1

Availability	Diameter	Contents	REF
Mediloy® M-Ti4 12 mm with shoulder	98 mm	1 piece	50571
Mediloy® M-Ti4 14 mm with shoulder	98 mm	1 piece	50572
Mediloy® M-Ti4 16 mm with shoulder	98 mm	1 piece	50573
Mediloy® M-Ti4 18 mm with shoulder	98 mm	1 piece	50574
Mediloy® M-Ti4 20 mm with shoulder	98 mm	1 piece	50575
Mediloy® M-Ti4 22 mm with shoulder	98 mm	1 piece	50576
Mediloy® M-Ti4 25 mm with shoulder	98 mm	1 piece	50577

Further information on our complete CAD/CAM portfolio can be found on www.bego.com/cad-cam-solutions/ and in our catalogue „CAD/CAM Products“ (REF 800160)
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Mediloy® M-Ti5

The BEGO titanium milling blanks

- Improved surface with further optimized cutting ability
- Biocompatible and corrosion-resistant, nickel-, cadmium and beryllium-free
- Larger spans possible due to very high strength
- Available with shoulder: heights 12, 14, 16, 18, 20, 22, 25 mm
- Scope of application:
  - Metal-ceramic crowns and bridges
  - Abutments
  - Bars

Product details

Composition in % by mass
Ti 90.0 · Al 6.0 · V 4.0

Alloy characteristics	Standard values
Type (accord. to ISO 22674)	4
Density	4.3 g/cm³
Modulus of elasticity	113 GPa
Proof strength ($R_{p\,0.2}$)	875 MPa
Elongation after fracture (A^5)	16 %
Vickers hardness	285 HV10
Coefficient of thermal expansion (CTE) 25–500 °C, 10^{-6} K^{-1}	10.3

Availability	Diameter	Contents	REF
Mediloy® M-Ti5 12 mm with shoulder	98 mm	1 piece	50591
Mediloy® M-Ti5 14 mm with shoulder	98 mm	1 piece	50592
Mediloy® M-Ti5 16 mm with shoulder	98 mm	1 piece	50593
Mediloy® M-Ti5 18 mm with shoulder	98 mm	1 piece	50594
Mediloy® M-Ti5 20 mm with shoulder	98 mm	1 piece	50595
Mediloy® M-Ti5 22 mm with shoulder	98 mm	1 piece	50596
Mediloy® M-Ti5 25 mm with shoulder	98 mm	1 piece	50597

Further information on our complete CAD/CAM portfolio can be found on www.bego.com/cad-cam-solutions/ and in our catalogue „CAD/CAM Products“ (REF 800160)
Pictures and illustrations are exemplary. Colors, symbols, design, and information on the labels and/or packaging shown may differ from reality.

Detailed product information:

VarseoSmile® TriniQ®

One for all: Highly resilient material for 3D printing of crowns, bridges and prosthetic teeth

VarseoSmile® TriniQ® is the multi-tool among dental materials – a true all-rounder that intelligently integrates into the multifaceted requirements of modern dentistry. Its versatile properties predestine it as an excellent material for a wide range of dental applications, not only meeting everyday demands but also addressing specific patient needs with functionality, efficiency, and aesthetics.

- The exceptional material stability of VarseoSmile® TriniQ® allows you to create durable and sophisticated restorations.
- The 10 VITA® shades, along with excellent polishability and translucency, enable you to create restorations that blend seamlessly into the natural dentition
- Wear behaviour similar to lithium disilicate and antagonist-friendly at the same time
- The high bond strength with common adhesive cements ensures secure placement and long durability of the restorations
- The very good color stability ensures lasting esthetic outcomes
- The efficient 3D printing workflow enables you to fabricate restorations quickly and productively, shortening your treatment time
- Meets all requirements for a Class IIa medical device according to the EU Medical Device Regulation (EU) 2017/745 (MDR).

- Indications:

  Permanent restorations
  - Single-tooth
  - Three-unit bridges
  - Inlays, Onlays, Tabletops and Veneers

  Temporary restorations
  - Up to seven-unit temporary bridges

  Denture teeth
  - Prosthetic teeth individually, splinted or entire dental arch
  - For partial and full dentures

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* This symbol is a commercial designation/registered trademark of a company which is not part of the BEGO company group.
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Product details

Material data	Standard values	
Flexural strength	120 MPa	
Modulus of elasticity	3.600 MPa	
Water solubility	< 0.6 µg/mm³	
Water sorption	< 12 µg/mm³	
Availability	**Contents**	**REF**
VarseoSmile® TriniQ® A1	500 g bottle	41170
	250 g bottle	41180
VarseoSmile® TriniQ® A2	500 g bottle	41171
	250 g bottle	41181
VarseoSmile® TriniQ® A3	500 g bottle	41172
	250 g bottle	41182
VarseoSmile® TriniQ® A3,5	500 g bottle	41177
	250 g bottle	41187
VarseoSmile® TriniQ® B1	500 g bottle	41173
	250 g bottle	41183
VarseoSmile® TriniQ® B2	500 g bottle	41178
	250 g bottle	41188
VarseoSmile® TriniQ® C2	500 g bottle	41174
	250 g bottle	41184
VarseoSmile® TriniQ® D3	500 g bottle	41179
	250 g bottle	41189
VarseoSmile® TriniQ® 0M1	500 g bottle	41175
	250 g bottle	41185
VarseoSmile® TriniQ® 0M3	500 g bottle	41176
	250 g bottle	41186

Detailed product information:

VarseoSmile® Crown plus

The tooth-colored, ceramic filled hybrid material for 3D printing of permanent single crowns, inlays, onlays and veneers

- Easy to grind and polish by using standard tools
- Seven shades according to the proven VITA* classical shades: A1, A2, A3, B1, B3, C2, D3, BEGO Bleach BL
- Individualization of the objects is possible with composite stains
- Fluorescence of the printed objects resembles that of the natural tooth
- Antagonist-friendly material with mechanical buffering effect – ideal for implant-supported crowns
- Extensive scientific studies by renowned universities and institutes confirm the excellent features of the restorations made of VarseoSmile® Crown plus
- Excellent aesthetics thanks to a balanced ratio of opacity and translucency
- Low tendency to age and discolor thanks to very low water absorption
- Minimized formation of secondary caries thanks to a high adhesive bond with luting composites
- Meets all requirements for a Class IIa medical device according to the EU Medical Device Regulation (EU) 2017/745 (MDR).
- Indications:
  - Single crowns
  - Inlays
  - Onlays
  - Veneers

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Product details

Material data	Standard values	
Density	approx. 1.4 – 1.5 g/cm³	
Viscosity	2.500 – 6.000 mPas	
Flexural strength	116 – 150 MPa**	
Flexural modulus	4.090 MPa	
Hardness	≥ 90 Shore D	
Water solubility	< 1 µg/mm³	
Water sorption	< 12 µg/mm³	
Availability	**Contents**	**REF**
VarseoSmile® Crown^{plus} A1	500 g bottle	41107
	250 g bottle	41117
VarseoSmile® Crown^{plus} A2	500 g bottle	41108
	250 g bottle	41118
VarseoSmile® Crown^{plus} A3	500 g bottle	41109
	250 g bottle	41119
VarseoSmile® Crown^{plus} B1	500 g bottle	41110
	250 g bottle	41120
VarseoSmile® Crown^{plus} B3	500 g bottle	41111
	250 g bottle	41121
VarseoSmile® Crown^{plus} C2	500 g bottle	41112
	250 g bottle	41122
VarseoSmile® Crown^{plus} D3	500 g bottle	41113
	250 g bottle	41123
VarseoSmile® Crown^{plus} BL	500 g bottle	41114
	250 g bottle	41124

** Siehe Studie „Auswirkungen zusätzlicher UV-Lichthärtungsprozesse“ unter www.bego.com

Detailed product information:

VarseoSmile® Teeth

The ceramic-filled 3D printing material for esthetic and durable denture teeth

- Strong bond with 3D-printed denture bases and cold polymer denture bases
- The ceramic filling ensures high abrasion resistance of the denture teeth printed from VarseoSmile® Teeth
- Physically stabilized resin – no need to mix the resin in the resin tank even after prolonged non-use
- Esthetic denture teeth due to the very good ratio of opacity and translucency as well as the almost natural fluorescence
- For an even more natural look, the printed denture teeth can be characterized with veneering and staining techniques
- Available in 5 VITA* shades and in BEGO Bleach shade
- Cost-effective and efficient fabrication of full and partial dentures in the digital workflow with VarseoSmile® Teeth with reproducible results at any time
- Easy to grind and polish with standard tools
- Less than 0.7 % shape deviation when bonding to the denture base guarantee fluid workflows and high-quality work results
- Meets all requirements for a Class I medical device according to the EU Medical Device Regulation (EU) 2017/745 (MDR)

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Product details

Material data	Standard values
Max. dimensional deviation by bonding	< 0.7 %
Density	approx. 1.4 – 1.5 g/cm³
Flexural strength	≥ 100 MPa

Availability	Contents	REF
VarseoSmile® Teeth A1	1 kg bottle	41144
	250 g bottle	41154
VarseoSmile® Teeth A2	1 kg bottle	41145
	250 g bottle	41155
VarseoSmile® Teeth A3	1 kg bottle	41146
	250 g bottle	41156
VarseoSmile® Teeth B1	1 kg bottle	41147
	250 g bottle	41157
VarseoSmile® Teeth C2	1 kg bottle	41148
	250 g bottle	41158
VarseoSmile® Teeth BL	1 kg bottle	41149
	250 g bottle	41159

* This symbol is a commercial designation/registered trademark of a company which is not part of the BEGO company group.
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VarseoSmile® Temp

The tooth-colored resin for 3D printing of temporary crown and bridge restorations, inlays, onlays, and veneers

- Specially for the resin developed printing and processing parameters ensure an accurate fit and smooth production workflows with reproducible results at any time
- Easy finishing due to the the smooth surfaces of the printed objects
- Wide range of indications up to 7-unit bridges with a maximum of one pontic width
- Objects that have already been printed can be supplemented and repaired while maintaining original stability with VarseoSmile® Temp or will simply be reprinted due to low material costs
- Extremely short fabrication times and low material consumption equate to cost-efficient production in the laboratory
- Three shades according to the proven VITA* classical shades: A2, A3, C2
- The finished restoration can be attached using conventional temporary cements
- High biocompatibility – not cytotoxic, not genotoxic, not toxic, non-irritating, and non-sensitizing
- Esthetic temporaries with up to 12 months wear time
- Meets all requirements for a Class IIa medical device according to the EU Medical Device Regulation (EU) 2017/745 (MDR)

Product details

Material data	Standard values
Density	approx. 1.4 – 1.5 g/cm³
Viscosity	2.500 – 6.000 mPas
Flexural strength	≥ 100 MPa

Availability	Contents	REF
VarseoSmile® Temp A2	500 g bottle	41022
	250 g bottle	41102
VarseoSmile® Temp A3	500 g bottle	41023
	250 g bottle	41103
VarseoSmile® Temp C2	500 g bottle	41024
	250 g bottle	41104
VarseoSmile® Temp BL	500 g bottle	41026
	250 g bottle	41106

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Detailed product information:

VarseoWax® CAD/Cast

The resin for the 3D printing of burnout objects

- Can be burned out without leaving any residue – provides optimal conditions for pore-free, smooth and precise partial dentures
- Specially for the resin developed printing and processing parameters ensure smooth production sequences with reproducible results at any time
- High dimensional stability of the printed objects enables deformationfree investment and thus a good accuracy of fit of the casted objects
- Smart workflow – digital design enables planning of cast object and 3D-printed veneering in one step

Investing with system:
Specially developed for use with VarseoWax® CAD/Cast shock-heat investment material VarseoVest® C&B and VarseoVest® P plus

- Easy application
- Easy investing even on slender object details
- Moulds do not crack or tear

Product details

Material data	Standard values
Color	yellow
Viscosity	700 – 2.000 mPas
Density	approx. 1.10 g/cm³ bei 22°C
Flexural strength	> 50 MPa
Residual ash content	< 0,1 % bei 700 °C

Availability	Contents	REF
VarseoWax® CAD/Cast	1 kg bottle	41136
	250 g bottle	41137

VarseoWax® Model

The resin for 3D printing of dental models

- Resin for solid or hollow 3D printing of dental full and partial models as well as models with removable dies
- Suitable for duplication with silicone or hydrocolloid as well as for the fabrication of splints, aligners, etc. using the thermoforming technique
- Specially for the resin developed printing and processing parameters ensure smooth production sequences with reproducible results at any time
- The dimensional stability and the smooth and pore-free surfaces of the printed models are the ideal basis for the fabrication of high-precision restorations
- Can be insulated against adhesive wax, is resistant to moisture in order to facilitate problem-free cleaning and accordingly, its handling during processing is comparable to that of a conventional plaster model
- Optimal visibility of all model contours and preparation margins due to the opaque gray color of the models
- Suitable for processing in DLP 3D printers with a wavelength from 385 nm to 405 nm
- Easy and error-free to process – high physical stability minimizes sedimentation during storage and facilitates mixing

Product details

Material data	Standard values
Color	grey
Modulus of elasticity	≥ 1.500 mPas
Density	approx. 1.12 g/cm³
Viscosity	1.000 – 2.100 mPas
Flexural strength	> 50 MPa
Hardness	≥ 85 Shore D

Availability	Contents	REF
VarseoWax® Model	1 kg bottle	41140
	250 g bottle	41141

Compatibility with 3D printers

Compatibility overview

3D printers	VarseoSmile® TriniQ®	VarseoSmile® Crown plus	VarseoSmile® Teeth	VarseoSmile® Temp	VarseoWax® CAD/Cast	VarseoWax® Model
BEGO Varseo® XS	✓	✓	✓	✓	✓	✓
BEGO Varseo® /L/S		✓		✓	✓	
Ackuretta DENTIQ/Freeshape 120		✓	✓	✓		✓
Ackuretta SOL	✓	✓	✓	✓		
AnyCubic Photon Mono X						✓
Asiga MAX UV 385nm / MAX 405nm / MAX 2 / Ultra	✓	✓	✓	✓	✓	✓
Asiga Pro 4K80						✓
Dekema trix print²		✓	✓	✓		
Dental Makers Lightbuilder 4K 2.0	✓	✓	✓	✓		
Formlabs Form 2				✓		
Formlabs Form 3B/3B+		✓		✓		
Formlabs Form 4	✓					
Ivoclar PrograPrint PR5		✓		✓		
Microlay Versus 385		✓		✓		✓
Planmeca Creo C5		✓	✓	✓		
Prusa Medical One	✓	✓	✓	✓		
Rapid Shape D10+/D20 II/D20+/ D30 II/D30+/D50+	✓ (except D10+)	✓	✓ (except D10+)	✓	✓	✓
Shining 3D AccuFab CEL	✓					
Shining 3D AccuFab D1S/AccuFab L4D	✓*	✓	✓	✓		
SprintRay Pro 95/Pro 95 S/Pro 55/Pro 55 S		✓ (and Pro 2)	✓	✓		
Whip Mix VeriBuild/VeriEko		✓		✓		

* Only AccuFab L4D
Current status: March 2025

Compatibility with cleaning and post-curing processes

Compatibility overview

Cleaning processes	VarseoSmile® TriniQ®	VarseoSmile® Crown plus	VarseoSmile® Teeth	VarseoSmile® Temp	VarseoWax® CAD/Cast	VarseoWax® Model
Ackuretta Cleani/Whip Mix Veriwash	✓	✓	✓	✓		
AnyCubic Wash & Cure Plus						✓
Formlabs FormWash	✓	✓		✓		✓
InovaPrint Wash (manually)		✓		✓		
Ivoclar PrograPrint Clean		✓		✓		
Prusa Medical CW One	✓					
Rapid Shape RS Wash	✓	✓	✓	✓	✓	✓
SprintRay ProWash S/ProWash Dry		✓	✓	✓		
Ultrasonic bath IPA/Ethanol		✓	✓	✓	✓	✓
Ultrasonic bath IPA/Ethanol/InovaPrint Wash	✓					

Post-curing processes						
BEGO Otoflash	✓	✓	✓	✓	✓	✓
Ackuretta Curie Plus	✓	✓	✓	✓		
Ackuretta Curie/Varseo® Cure	✓	✓	✓	✓	✓	✓
AnyCubic Wash & Cure Plus						✓
CUREbox Plus		✓		✓		
Formlabs Fast Cure	✓	✓		✓		
Formlabs Form Cure	✓	✓		✓		✓
Ivoclar PrograPrint Cure		✓		✓		
Kulzer HiLite Power		✓	✓	✓		✓
Prusa Medical CW One	✓					
Rapid Shape RS Cure	✓	✓	✓	✓	✓	✓
Shining 3D FabCure 1		✓	✓	✓		
Shining 3D FabCure 2	✓	✓	✓	✓		
SprintRay NanoCure		✓	✓	✓		
SprintRay Pro Cure		✓	✓	✓		
SprintRay Pro Cure 2		✓		✓		
Wicked Engineering CUREbox Plus		✓		✓		

Current status: March 2025

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Joining and Soldering

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 color 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

Product details LaserStar T plus

Technical data	
Laser type	Nd: YAG
Wavelength	1,064 nm
Pulse energy	60 joules
Pulse length	0.3–50 ms
Rated power	60 W
Pulse peak output	max. 8 KW
Spot diameter	0.2 mm to 2.6 mm
Pulse frequency	Single pulse, 1–50 Hz
Pulse shapes	4 fixed, 12 variable available
Microscope Leica with TrueView function	with 10 x occulars
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
Air nozzle for cooling	flexible
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 VAC/50 Hz, 1 phase, 13 A or 110 VAC/60 Hz; 1 phase, 16 A
Weight	approx. 60 kg
Dimensions (H×W×D)	505×521×754 mm

Availability	Contents	REF
LaserStar T plus	1 piece	26405

Accessories		
Pressure regulator for argon inert gas	1 piece	13380
Lifting table	1 piece	15649

Product details Ventus Filter system

Technical data	
Line voltage	200–240 VAC, 50/60 Hz
Rated power	140 W
Flow rate	59–120 m^3/h
Sound level	47–53 dB(A)
Dimensions (H × W × D)	512 × 320 × 310 mm
Weight	21 kg

Scope of delivery	Technical details
Preliminary filter (efficiency factor F7)	99 % @ 0,8 µm
Combifilter (efficiency factor H13)	99,997 % @ 0,3 µm
Suction tube	Ø 50 mm, 3 m
Adapter for connection to LaserStar T plus	

Availability	Contents	REF
Ventus filter system for LaserStar T plus	1 piece	26440

Additional Materials

for laser welding

Product details

Availability	Composition in % by mass	Thickness/mm	Quantity	REF
Wiroweld (CoCrMo, C-free)	Co 65.0 · Cr 28.0 · Mo 6.0 · Mn · Si	0.35	2 m – 1.5 g	50003
Wiroweld (CoCrMo, C-free)	Co 65.0 · Cr 28.0 · Mo 6.0 · Mn · Si	0.5	1.5 m – 2 g	50005
Titan Grade 2 wire	Ti 100.0	0.35	5 m – 2 g	50008
AuroLloyd® KF wire	Au 55.0 · Ag 29.3 · Pd 10.0 · In 3.5 · Zn 1.2 · Sn 1.0 · Re · Ru	0.35	5 g	61153
BegoCer® G wire	Au 51.5 · Pd 38.4 · In 8.7 · Ga 1.3 · Ru	0.35	5 g	61164
BegoPal® 300 wire	Pd 75.2 · In 6.3 · Ag 6.2 · Au 6.0 · Ga 6.0 · Re · Ru	0.35	5 g	61165
BegoStar® ECO wire	Pd 51.9 · Ag 23.0 · Au 15.0 · In 6.0 · Sn 4.0 · Ru	0.35	5 g	61171
Bio PlatinLloyd® wire	Au 74.9 · Ag 14.9 · Pt 7.8 · Zn 2.2 · Mg · Mn · Rh	0.35	5 g	61161
Bio PontoStar® wire	Au 86.7 · Pt 10.7 · Zn 1.5 · In · Mn · Rh · Ta	0.35	5 g	61157
Bio PontoStar® XL wire	Au 86.0 · Pt 11.5 · Zn 1.6 · Fe · In · Rh	0.35	5 g	61167
ECO d'OR wire	Ag 40.5 · Au 38.1 · Pd 13.0 · In 8.0 · Mn · Ta	0.35	5 g	61170
PlatinLloyd® 100 wire	Au 72.0 · Ag 13.7 · Cu 9.8 · Pt 3.5 · Ir · Zn	0.35	5 g	61152
PlatinLloyd® M wire	Au 70.0 · Ag 11.7 · Cu 10.0 · Pt 5.0 · Zn 1.9 · Pd 1.0 · In · Re	0.35	5 g	61155
PontoLloyd® P wire	Au 77.5 · Pt 9.9 · Pd 8.9 · In 1.4 · Ag 1.0 · Cu · Fe · Ir · Sn	0.35	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	5 g	61172
PontoStar® G wire	Au 85.5 · Pt 11.4 · In 2.3 · Fe · Rh	0.35	5 g	61150

ISO 28319

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	REF
Thermostop	140 g tin	52540

Minoxyd

Flux

- For soldering precious- and non-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	REF
Minoxyd	80 g bottle	52530

High-quality Dental Solders

Perfectly coordinated with BEGO alloys

- The special composition of the BEGO solders guarantees an easy flowability for the finest joining work
- High strength ensures protection against fractures at the joints
- Reliable soldering process and outstanding adhesion because the working temperature is geared to the respective alloy

Solders

			Composition % by mass (x = < 1 %)									
Solders	REF	BEGO color code*	Au	Pt	Pd	Ag	Cu	Sn	Zn	In	Other (< 1 %)	Melting range °C
BEGO Gold solder I	61017	2	72.0	1.9	1.0	8.0	7.0	–	10.0	–	Re	740, 790
BEGO Gold solder II	61043	3	73.0	1.9	–	10.0	3.0	–	12.0	–	Re	700, 730
BegoStar® solder before firing	61081	8	55.0	–	10.0	34.0	–	–	–	1.0	–	1070, 1100
PontoRex® solder before firing	61038	2	76.0	2.9	–	10.0	6.0	–	5.0	–	Ir	860, 880
PontoRex® solder after firing	61039	2	72.5	x	–	10.0	3.0	–	12.0	2.0	Ir	670, 700
PontoStar® G solder before firing	61045	2	64.0	x	–	34.8	–	–	–	x	Rh	1000, 1015

ISO 9333

* see BEGO Color Code on page 57
Pictures and illustrations are exemplary. Colors, symbols, design, and information on the labels and/or packaging shown may differ from reality.

Wirobond® Solder

Soldering rods for Wirobond® alloys

Product details

Composition in % by mass

Co 61.0 · Cr 28.5 · Si 4.2 · Mo 3.1 · B 1.5 · Fe 1.3 · C

Characteristics	REF
Solidus, liquidus temperature 1125, 1195 °C	
Flux Minoxyd	52530

Availability	Contents	REF
Wirobond® solder (triangular) ▲	4 g	52622

ISO 9333

Wiron® Solder

Soldering rods for all BEGO nickel-chrome alloys

Product details

Composition in % by mass

Ni 66.0 · Cr 19.0 · Mo 5.5 · Fe 5.0 · Si 3.5 · B

Characteristics	REF
Solidus, liquidus temperature 1140, 1200 °C	
Flux Minoxyd	52530

Availability	Contents	REF
Wiron® solder (round) ●	4 g	52625

ISO 9333

Cobalt-chrome Solder

Soldering rods for all cobalt-chrome partial denture alloys

Product details

Composition in % by mass

Co 61.0 · Cr 28.5 · Si 4.2 · Mo 3.1 · B 1.5 · Fe 1.3 · C

Characteristics	REF
Solidus, liquidus temperature 1125, 1195 °C	
Flux Minoxyd	52530

Availability	Contents	REF
Cobalt-chrome solder (half-round ◗	4 g	52520

ISO 9333

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9

Casting

Fornax® T

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

Fornax® T is equally suitable for both non-precious and precious metal alloys, as well as partial denture casting. With two adjustable starting speeds, optimum filling is guaranteed for every cast object

- Benchtop casting machine with high-performance induction heating guarantees short melting cycles, minimises oxidation and thus facilitates subsequent finishing
- The user-friendly operating panel provides information on all parameters and gives quick and easy access to all major functions
- Integrated power cooling provides for over 50 casts in a row, even with high ambient temperatures with moulds made of phosphate-bonded investment materials
- Integrated adjustable infrared sensor for safe and gentle melting of all standard precious metal and non-precious metal alloys (excluding titanium) at a casting temperature of up to 1,550 °C
- High output reserves with low power consumption of just 16 amps
- Very quick adjustment to different casting mould sizes by means of a simple mechanism ensures fast working
- Compact dimensions and design give the new Fornax® T a very small footprint

Product details

Technical data	
Height	455 mm
Height with cover open	910 mm
Width	710 mm mit Hebel
Depth	615 mm
Depth with cover open	675 mm
Rated voltage	230 VAC, 50/60 Hz
Special voltage	200–240 VAC, 50/60 HZ
Current consumption	approx. 16 A
Heating power	3.6 kVA, 65 kHz
Weight	80 kg

Availability	Contents	REF
Fornax® T 230 VAC, 50/60 Hz	1 piece	26480
Ceramic crucible	6 pieces	52483
Graphite inserts	6 pieces	52454
Ceramic inserts for ceramic melting crucible	6 pieces	52455

Accessories		
Base socket mould formers size 3	4 pieces	52627
Base socket mould formers size 6	4 pieces	52628
Base socket mould formers size 9	4 pieces	52629
Mould tong, 64 cm long	1 piece	11599
Mould tong, 55 cm long	1 piece	39754

More information

Nautilus® Ceramic Crucible FC

Made from an innovative special ceramic

- The design of the Nautilus® ceramic crucible FC 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® ceramic crucible FC

Product details

Availability	Contents	REF
Nautilus® ceramic crucible FC	4 pieces	52488

Plastic Handles

for Nautilus® ceramic crucibles

Product details

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

Ceramic Handles

for Nautilus® ceramic crucibles

Product details

Availability	Contents	REF
Ceramic handles for Nautilus® ceramic crucibles, to be used for the casting of precious alloys	2 pieces	52467

Graphite Cylinder

for Nautilus® ceramic crucibles

- For Nautilus® T
- For melting of precious alloys

Product details

Availability	Contents	REF
Graphite cylinder	6 pieces	52468

Glass Carbon Cylinder

for Nautilus® ceramic crucibles

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

Product details

Availability	Contents	REF
Glass carbon cylinder	4 pieces	52473

Fornax® Ceramic Crucibles FC

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	REF
Fornax® ceramic crucible	6 pieces	52483

Graphite Inserts

for Fornax® ceramic crucibles

- For melting of precious-metal alloys

Product details

Availability	Contents	REF
Graphite inserts	6 pieces	52454

Ceramic Inserts

for Fornax® ceramic melting crucibles

- For melting of precious-metal alloys with a high palladium content

Product details

Availability	Contents	REF
Ceramic inserts	6 pieces	52455

Lolipot

Crucible engobe for Fornax®- and Nautilus® ceramic crucibles

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

Product details

Availability	Contents	REF
Lolipot (pressure pulverizer)	100 ml bottle	52477

10

Blasting

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 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	REF
Korox® 250 (250 µm)	8 kg canister	46014
Korox® 250 (250 µm) large pack	20 kg tub	54300
Korox® 110 (110 µm)	8 kg canister	46044
Korox® 110 (110 µm) large pack	20 kg tub	54299
Korox® 50 (50 µm)	8 kg canister	46062
Korox® 50 (50 µm) large pack	20 kg tub	54298

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
- It can be used for all standard crown and bridge alloys to give the occlusal surfaces a matt finish

Product details

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

11

Surface Treatment

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 VAC, 50/60 Hz
Special voltage	100–120 VAC, 50/60 Hz
Power at rated voltage of 230 VAC	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	REF
Triton SLA with full demineralisation cartridge, ring spanner incl.	1 piece	26005

Accessories		
Full demineralisation cartridge with insert and ring spanner	1 piece	20690
Inserts for full demineralisation cartridge for REF 20690	1 piece	20691
Ring spanner for full demineralisation cartridge for REF 20690	1 piece	20692

Separating Discs

for separating sprues

- 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 × 0.2 mm SecuDisc cuts precious alloys very economically

Product details

Availability	Rotational speed min^{-1}	Contents	REF
SecuDisc BEGO Separating discs Ø 22 × 0.2 mm	20,000–40,000	20 pieces	54810
SecuDisc BEGO Separating discs Ø 25 × 0.3 mm	20,000–40,000	20 pieces	54809
SecuDisc BEGO Separating discs Ø 38 × 0.5 mm	20,000–40,000	20 pieces	54808

Fine-grain Grinding Stones

with a high cutting capacity

- Fine grit stones are used for efficient grinding of dental alloys.
- The figures of the ISO No. denotes the largest diameter of the active section in 1/10 mm

Product details

Availability	Rotational speed min^{-1}	Contents	REF
Shank size 2.35 mm H1 Ø head 6.6 mm	30,000–50,000	100 pieces	43160
H2 Ø head 3.5 mm	30,000–50,000	100 pieces	43200

Perforated Discs

for smoothing sprue ends

- 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	Rotational speed min^{-1}	Contents	REF
Perforated discs Ø 22 × 3 mm	10,000–15,000	100 pieces	43100
Perforated discs Ø 34 × 3 mm	approx. 10,000	100 pieces	43080

Rubber Polishers

for pre-polishing alloy surfaces

- For pre-polishing the surfaces of precious and non-precious castings
- During the following high-gloss polishing, a deep, lasting shine is achieved

Product details

Availability	Rotational speed min^{-1}	IContents	REF
Rubber polishing wheels, Ø 22 × 3.5 mm	7,000–12,000		
1 green		100 pieces	43310
2 black		100 pieces	43330
Rubber polishing tips, Ø 7.0 × 20 mm	7,000–12,000		
3 green		100 pieces	43350
4 black		100 pieces	43370

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Polishing Compound

for dry polishing

- Polishing paste blue is wax-bonded and enables clean and practically dust-free work
- It does not contain any harmful quartz
- Polishing paste blue is a universal polishing paste, it creates even surfaces and ensures a high shine

Product details

Availability	Contents	REF
Rough and final polish, for cobalt-chrome, blue, approx. 1.5 kg	3 pieces	52310

Steribim® plus

High-performance polishing compound for acrylic dentures and 3D printed VarseoSmile® restorations

- For polishing acrylic dentures and 3D printed VarseoSmile® restorations
- For polishing hard and BEGO Splint E splints
- Bactericidal and fungicidal effect
- Pleasant to use, prevents unpleasant odors during the polishing process
- Natural product, skin-friendly, biodegradable, environmentally friendly
- Quartz and formaldehyde free

Product details

Availability	Contents	REF
Steribim® plus	10 kg tub	54923

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	REF
Wirolyt	1 l bottle	52460

Eltropol 300

Polishing unit

- 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	100–240 VAC, 50/60 Hz
Max. power consuption	200 VA
Polishing current	max. 10 A
Capacity of tub/bowl	2 liter
Weight	10 kg

Availability	**Contents**	**REF**
Eltropol 300 110/240 VAC, with supplementary cathode, clamps with holder, model hook	1 piece	26310

Accessories		
Supplementary cathode, straight	1 piece	17003
Supplementary cathode Eltropol 300	1 set	17000
Spare clamps with holder	2 pieces	36445
Spare clamps	6 pieces	14651
Model hook + shrinking hose	1 piece	17001
Wirolyt polishing liquid	1 l bottle	52460

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More brochures and tutorials:

www.bego.com/media-library

Selected information:

- Metal Ceramics Brochure – REF 82093
- Partial denture technique Brochure – REF 82068

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Alphabetical table of contents

All products at one glance

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