

**Dental milling material
for crowns, bridges, abutments
and bar constructions**
accord. to ISO 22674 (beryllium free)



Availability: 50650 50651 50652 50653
50660 50661 50662
50670 50671 50672
50750 50751 50752 50753

Standard analysis, % by weight (elements)

Ti	90	Fe, O, C, N
Al	6	
V	4	

Alloy characteristics (standard values)

Bio-Certificate	
Type (ISO 22674)	5
Density [g/cm ³]	4.5
Modulus of elasticity [GPa]	approx. 115
Elongation limit (R _{0.02}) [MPa]	800
Tensile strength (R _m) [MPa]	900
Ductile yield (A _{0.2}) [%]	15
Vickers hardness (HV 10)	330
BEGO colour code	white (8)

Directions for use

Indications for use: BEGO Titan Grade 5 is suitable for fabrication of crown and bridge restorations. BEGO Titan Grade 5 is available as milling blank and is processed by milling.
For professional use only: **Rx only**

Contraindications: No contraindications are known. However, unwanted biological reactions such as allergies to contents of the alloy or electrochemically based reactions may very rarely occur. In case of known incompatibilities and allergies to contents of the metallic material it should not be used.

Warnings: Metal dust is harmful to your health. When grinding and blasting use suitable air extraction system / ventilation at the workplace and breathing mask type FFP3-EN149:2001!

Precautions: This device is for single use only. Do not reuse the alloy. This may result in loss of proper mechanical function.
In case of occlusal or approximal contact of BEGO Titan Grade 5 with a different alloy electrochemically based reactions may very rarely occur.
Safety and effectiveness in treatment of children or treatment of pregnant or nursing woman have not been established.

Adverse reactions: No adverse reactions are known. Nevertheless, the rare case of occurrence of individual reactions against single components of BEGO Titan Grade 5 can never be excluded completely. In this case, the application of BEGO Titan Grade 5 should not be continued.

Prescription device: Caution: Federal law restricts this device to sale by or on the order of a licensed dentist.

Modelling: Minimum metal thickness 0.4 mm. Choose connector size as thick and more importantly as high as possible.

Milling/Finishing: Minimum metal thickness 0.4 mm. Use fine carbide tools suitable for Titanium. For grinding apply low pressure and work in one direction only.
Important! Use special tools for Titanium only. Keep these tools separate! A dark and discoloured, slightly rough surface indicates incorrect finishing: Repeat finishing.
When using cooling/lubricating agents for milling ensure complete final cleaning of/ removal from surfaces!

Passivation: Provide for sufficient passivation of a freshly prepared surface at different working stages by waiting for at least 10 minutes before resuming work.

Acrylic veneering: The corresponding instructions of the manufacturers must be followed when processing the veneering systems.

Final work: Carefully blast visible metal surfaces (e. g. inside crowns) with Korox® 50 at 2 bar and then blast-polish external surfaces with Perlablast®. This is of course dispensable for external surfaces when it has been completed before firing. Then continue rubber-polishing the external surfaces with low pressure and low speed (avoid overheating!) using polishers suitable for Titanium, after that finish-polish with BEGO cobalt-chrome polishing paste (blue, REF 52310) and allow for passivation of the fresh surface for at least 10 minutes. Clean thoroughly (steam clean or boil in aqua dest).

Laser welding: Filler material: Titanium wire Ø 0.35 mm (REF 50008).

Warranty: Whether given verbally, in writing or by practical instructions, our recommendations for use are based upon our own experience and trials and can only be considered as standard values. Our products are subject to a constant continuous development. Therefore alterations in construction and composition are reserved.

Limitation of Liability: Except where prohibited by law, BEGO will not be liable for any loss or damage arising from this product, whether direct, indirect, special, incidental or consequential, regardless of the theory asserted, including warranty, contract, negligence or strict liability.

The device labeling meets the recommendations of FDA applicable guidance documents.



Manufacturer



Consult
instruction
for use



Caution