

Instructions for use

Dental Au based casting alloy, Type 4

AuroLloyd® M is available as ingot.

AuroLloyd® M equates to ISO 22674.

REF 61054

Alloy characteristics

According to ISO 22674 AuroLloyd® M is free of nickel, cadmium, beryllium and lead

Type (accord. to ISO 22674)	4
Preheating temperature °C	700
Solidus, liquidus temperature °C	860, 920
Casting temperature °C	1100
Density g/cm ³	13,5
Young's modulus GPa	107
Proof strength (R _{p0.2}) MPa	455
Ultimate strength (R _m) MPa	860/870
Elongation after fracture (A ₅) %	6
Vickers hardness (HV5)	250
BEGO color code	5

Hardening (if desired): 500 °C für 15 min

Softening annealing: 750 °C for 10 min, than quenching in water (20 °C)

Investment material:	phosphat bonded, e. g. Bellavest SH (REF 54252)
Crucible material	Ker, Gra, Gla (with Ker: ceramic; Gra: Grafite; Gla glassy carbon)
Veneering ceramic	not veneerable with ceramic
Flux	e. g. Minoxyd (REF 52530)
Brazing material	BEGO-Gold-Lot I (REF 61017); BEGO-Gold-Lot II (REF 61043)
Laser wire:	PlatinLloyd® M-Draht (REF 61155)
Melting powder	Auromelt (REF 52525)

Indications for use: AuroLloyd® M is suitable for dental crown and bridges. Not veneerable with ceramics!

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!

Precautions: In case of occlusal or approximal contact 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. AuroLloyd® M may influence negatively the interpretation of MRI investigations.

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

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

Wax up: Minimum metal thickness (after grinding) 0.4 mm. Avoid sharp edges and corners. Framework should be anatomic reduced. Connectors should be modeled as strong and high as possible (height: min. 3.5 mm, width: min. 2.5 mm). In case of bruxism stronger modulation is required. Use wax or plastic hollow sticks. Do not taper the spring.

Investing: Use only phosphate bonded investment material for crown and bridge technique.

Casting: Do not overheat alloy. Use only pure alloy in own crucibles. For an explicit batch tracing the use of only fresh alloy is recommended. In case of re-casting use only identical alloys. Re-casted material must be blasted thoroughly. Use min. 50 % fresh alloy. If applicable use Auromelt HF melting powder (REF 52525). Follow the instructions of the manufacturers of the casting devices for parameters and casting procedures. After casting the mould should cool down slowly.

Grinding: use tungsten carbid burs

Polishing: To ease polishing blasting with Perblast® micro (REF 46092, lead free soda glas) may be suitable. Afterwards polish with rubber polisher and brushes with suitable polishing paste.

Acrylic veneering: For veneering with acrylic material follow the recommendations of the manufacturers

Soldering/brazing: Fixate the parts with soldering investment material (e. g. Bellatherm® REF 51105). The prepared gab shall not exceed 0.2 mm with parallel walls. Use a suitable BEGO flux. The flux residues and oxides must etched off. Clean surface thoroughly by steam cleaning or boiling in aqua dest.

Laser welding: If applicable use V-seam and filler material

Follow manufacturer's instructions for use and hazard notes of the laser welding devices.

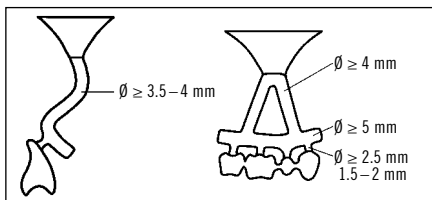
Limit of Liability: Except where prohibited by law, BEGO Bremer Goldschlägerei Wilh. Herbst GmbH & Co. KG will not be liable for any loss or damage arising from this product, whether direct, indirect, special, incidental or consequential, regardless of the theory asserted, including warranty, contract,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

Storage conditions: none

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

US Labeling requirements: The device labeling meets the recommendations of FDA applicable guidance documents.

Any serious incident that has occurred in relation to AuroLloyd® M should be reported to BEGO Bremer Goldschlägerei Wilh. Herbst GmbH & Co. KG and the competent authority.



Consult instructions for use



Caution



Use-by-date



Batch code



Non-sterile

Rx only
For professional use only



Catalogue number



Manufacturer

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