INSTRUCTIONS FOR USE FOR ABUTMENT IN COBALT CHROME

DESCRIPTION

Overcast abutments with a CoCr28Mo base. They make it possible to carry out overcasting for unitary, multiple and total rehabilitations. The package contains the CoCr28Mo overcast abutment and the relative retention screw. The Abutments are produced using the CoCr28Mo compliant with the ASTM F1537 standard as the material for the connection base; the plastic castable cannula is made of Polyoxymethylene (POM); the retention screw is in Titanium Alloy Ti6Al4V ELI in compliance with the ASTM F136 standard.
The CoCr28Mo alloy is of amagnetic cobalt, implantable, enriched with Chrome and Molybdenum. Excellent corrosion resistance and good fatigue resistance. The supplied quality has a maximum Nickel content of 0,02%.

INDICATIONS / DESTINATION OF USE

CoCr28Mo Abutments are intended to be used to make custom-made abutments with a lost-wax cast-on technique for the rehabilitation of single, partial or total jaw restorations.

CONTRAINDICATIONS

In very rare cases allergies or sensitivities cannot be excluded in relation to the CoCr28Mo alloy. Do not use in cases of possible hypersensitivity to one or more metals contained in the CoCr28Mo alloy.

TECHNICAL DATA

Composition:
Base: CoCr28Mo - ASTM F1537

	Co	Cr	Mo	C	Si	Mn	Fe	Ni
%by weight	65,9	27,8	5,1	0,1	0,4	0,5	0,1	0,02

Castable cannula: Polyoxymethylene (POM)
Abutment screw: Ti6Al4V ELI grade 23 - ASTM F136

CoCr28Mo abutment density:
- 8,28 g/cm^3

CoCr28Mo abutment fusion value range:
- 1075 – 1150 °C (1967 – 2102 °F)

CoCr28Mo abutment thermal expansion coefficient:
- 14,2 µm / K (600 °C)

Base weight (castable sleeve excluded):
- 0,3 grams

TREATMENT

The castable abutment is made with an over cast alloy base and a castable plastic cannula that does not release residues during the lost wax casting process. The plastic cannula can be shortened before waxing if necessary. The minimum wall thickness of 0.4 mm must be respected. The connection geometry and the platform to the plant must be completely free of plastic, wax and grease to guarantee the absence of these leaks in this area.
Only phosphate-bound compounds (without gypsum) recommended for the fusion of metal alloys can be used for the coating. When choosing the cast-on alloy it is advisable to accurately assess the melting temperature with respect to that of the component to be over-ducted, which must be about 80-100 °C higher to avoid being deformed but to allow a good union between the two alloys.
Refer to the cast-on alloy for indications on oven preheating and metal CTE.
After melting, allow the cylinder to cool slowly to room temperature to prevent tensions from forming between the two alloys.
The coating and the oxide can be removed by sandblasting (we recommend a maximum pressure of 2 bar which allows to avoid alterations and damage to the implant-abutment connection area; before the sandblasting process is preferable to mask the connection with wax, subsequently to be removed by steam).
Finishing and polishing is recommended to be carried out by sandblasting with glass spheres to avoid damage and modification of the CoCr28Mo base.
In case of a ceramic stratification it is recommended to use bonding before.

SAFETY NOTICE

Metal dust is harmful to health. When working and blasting, use a suction with a fine dust filter, as usual in practice, wear protective glasses and a mask.
Various alloy types in the same oral cavity can lead to galvanic reactions in the event of occlusal or proximal contact. Therefore avoid proximal and occlusal contact between different types of alloys.
It is recommended to verify that the patient does not present allergies or pathologies related to one or more elements contained in the alloy used for the over-cast base and in the cast-on material.

DISCLAIMER OF LIABILITY

This product is part of an overall concept and may only be used in conjunction with the associated original products (according to Advan's instructions and recommendation).
Non-recommended use of products made by third parties in conjunction with Advan products will void any warranty or other obligation, express or implied, of Advan. The user of Advan products has the duty to determine whether or not any product is suitable for the particular patient and circumstances. Advan disclaims any liability, express or implied, and shall have no responsibility for any direct, indirect, punitive or other damages, arising out of or in connection with any errors in professional judgment or practice in the use of Advan products. The user is also obliged to study the latest developments in regard to this Advan product and its applications regularly. In cases where clarifications are needed, the user should contact a representative of Advan. Since the utilisation of this product is under the control of the user, it is his/her responsibility. Advan does not assume any liability whatsoever for damage arising thereof. Please, note that some products detailed in this Instruction for Use may not be regulatory cleared, released or licensed for sale in all markets.

FURTHER INFORMATIONS

For more information on the use of Advan products, contact Advan customer service.

DISPOSAL

Disposal must be managed in an environmentally sustainable way, in compliance with local regulations. Hazardous waste from contaminated devices or sharp objects must be disposed off in suitable containers that meet specific technical requirements.

SYMBOLS

The following table describes the symbols that can be found on the packaging label. Consult the packaging label for the symbols applicable to the product.

SYMBOLS GLOSSARY

Symbol	Description
	Manufacturer
	Date of manufacture
	Use-by date
	Batch code
	Catalogue number
	Sterilized using irradiation

Symbol	Description
	Do not resterilize
	Non-sterile
	Do not use if package is damaged and consult instructions for use
	Keep away from sunlight
	Keep dry
	Do not re-use
	Consult instructions for use or consult electronic instructions for use
	Caution
	Multi packaging (the number reported in the symbol refers to the number of units in the packaging)
	Medical device
	Single sterile barrier system with protective packaging inside
	Single sterile barrier system with protective packaging outside
	Distributor

Symbol	Description
UDI	Unique device identifier
R	Not locking prosthetic component
NR	Octagon locking prosthetic component
NR	Hexagon locking prosthetic component
CE 0123	Advan products covered by the CE mark fulfill the requirements of the Directive 93/42/CEE concerning medical devices and falls within Classes IIa, IIb
CE	Advan products covered by the CE mark without the identification number fulfill the requirements of the EU Regulation 2017/745 (MDR) concerning medical devices and falls within Class I

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