

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/cm³

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.

SYMBOLS GLOSSARY

Symbol	Description
	Sterilize using irradiation.
	Serial number
	Consult instructions for use.
	Do not use if the package is damaged and consult instructions for use.
	Non-sterile
	Not locking prosthetic component
	Octagon locking prosthetic component
	Hexagon locking prosthetic component
	Keep away from sunlight.
	Keep dry

Symbol	Description
	Medical device
	Manufacturer
	Batch code
	Catalogue number
	Do not re-use
	Use-by date
	Advan products covered by the CE Mark fulfill the requirements of the Directive 93/42/CEE. With notified Body number.
	Advan products covered by the CE Mark fulfill the requirements of the Directive 93/42/CEE.
	Multi packaging (the number reported in the symbol refers to the number of units in the packaging).



Advan s.r.l.

Via Linussio, 1
33020 Amaro (UD) - Italia
Tel. +39 0433.096245
info@advanimplantology.com

www.advanimplantology.com