Instructions for use & technical data
CopraTi-5

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CE 0483

Specifications	**printing date: 13.02.2012**
product:	**CopraTi-5**
product type:	Titan Grade 5 – milling blank
product shape:	metal disc 98,3mm Ø in different diameters and thicknesses
CE-mark:	CE 0483
applied standards:	DIN EN ISO 9001:2008, DIN ISO 5832-3 and ASTM F67 manufacturing and testing according to DIN EN ISO 13485 and medical products guideline 93/42/EEC annex II excluding section 4
veneer porcelain:	all standard veneering porcelains for titanium

composition:	
Ti ~90	
Fe 0,13	
Al 6,0	
V 4,1	
O 0,1	
H 0,001	
N 0,01	
C 0,03	

mechanical properties:	
density:	4,45 g/cm^3
vickers hardness:	353
module of elasticity:	114 kN/mm^2
CTE:	836 MPa
yield strength:	897 MPa
tensile strength:	12 %
fracture strain:	10,3 10^{-6}/m. Celsius

description

CopraTi-5	is a high-quality titanium alloy (grade 5-ELI) for the CAD / CAM technology. This industrially manufactured material ensures consistent quality, has high tensile and hardness values
CopraTi-5	naturally is biocompatible.

indication:

CopraTi-2 (pure titanium Grade 2)	single crowns, small bridges in anterior and posterior region
CopraTi-4 (pure titanium Grade 4)	single crowns, medium bridges, implants in anterior and posterior region, implants and bar constructions
CopraTi-5 (titanium alloy Grade 5-ELI)	single crowns up to big bridges and bar constructions in anterior and posterior region, implants

Instruction for use:

- Cut out, smoothen frameworks and single elements with suitable milling burs for titanium.

Cleaning:

- Fettle and smoothen the surfaces of milled frameworks with special, titanium suitable cross-cut burs or separating discs in only one direction to avoid a blistering in the porcelain
- Sandblast the frameworks with 110µ (2-3 bar pressure) aluminum oxide and steam clean or dip them in methylalcohol. Never use hydrofluoric acid!

Bonding of ceramic:

- Remove oxides after firing by blasting with glass beads. Finish with rubber stones and polishing paste
- Please follow the instructions for use of your chosen veneering porcelain manufacturer

Hazard note! During dry milling of titanium, chips and swarfs can ignite themselves and cause fire.