

## **CopraTi-2**

### **Specifications**

Manufacturer:	Whitepeaks Dental Solutions GmbH & Co. KG Langeheide 9 - 45239 Essen - Germany
product:	<b>CopraTi-2</b>
product type:	Titan Grade 2 – milling blank
product shape:	metal disc ~98,3mm Ø in different diameters and thicknesses
CE-mark:	X 0483
applied standards:	DIN ISO 5832-2 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
contra indikation:	do not use proven allergy or hypersensitivity againsts the alloy or its components.

### **composition:**

titanium (Ti)	> 99%
iron (Fe)	max. 0,30%
carbon (C)	max. 0,10%
nitrogen (N)	max. 0,03%
oxygen (O)	max. 0,25%
hydrogen (H)	max. 0,0125%

### **mechanical properties:**

density	~ 4,51 g/cm <sup>3</sup>
vickers hardness	~ 120 – 160 HV10
CTE (20°C)	8,7 * 10 <sup>-6</sup> /(m*K)
yield strength	min. 275 MPa
tensile strength	min 345 MPa
fracture strain	min. 20%
reduction in area	min. 30%

### **description**

CopraTi-2	Is a high-quality, bio-compatible pure titanium blank (grade 2) specially designed for CAD/CAM applications. This industrial manufactured material guaranties a constant quality
CopraTi-2	naturally is biocompatible.

### **indication:**

**CopraTi-2** (pure titanium Grade 2)      single crowns, small bridges in anterior and posterior region

### **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.**