

## CopraTi-5

### Specifications

printing date: 11/26/2018

Manufacturer:	Whitepeaks Dental Solutions GmbH & Co. KG Langeheide 9 - 45239 Essen - Germany
product:	<b>ARUM TI-5</b>
product type:	Titan Grade 5 – milling blank
product shape:	metal disc ~98,3mm Ø in different diameters and thicknesses metal rod blank in 8 to 24.5 mm diameter in various lengths
CE-mark:	C € 0483
applied standards:	DIN ISO 5832-3 and ASTM F136 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 indication:	do not use proven allergy or hypersensitivity againsts the alloy or its components.

### composition:

titanium (Ti)	~ 90%
iron (Fe)	max. 0,25%
aluminium (Al)	5,5 – 6,5%
vanadium (V)	3,5 – 4,5%
oxygen (O)	max. 0,13%
hydrogen (H)	max. 0,012%
nitrogen (N)	max. 0,05%
carbon (C)	max. 0,08%

### mechanical properties:

density	~ 4,43 g/cm <sup>3</sup>
vickers hardness	~ 341 HV10
CTE(25°C – 500°C)	~ 9,7 10 <sup>-6</sup> K <sup>-1</sup>
yield strength	min. 760 MPa
tensile strength	min. 825 MPa
fracture strain	min. 8%
reduction in area	min. 15%

### description

ARUM TI-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
ARUM TI-5	naturally is biocompatible.

### indication:

**ARUM TI-5** (titanium alloy Grade 5-ELI) single crowns up to big bridges and bar constructions in anterior and posterior region and superstructures

### 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.**