

Instruction for Use

Zfx™ RAWDENS

Zfx™ Titanium G5

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1. Specifications

- × Product: Zfx™ Titanium G5
- × Product type: Titan Grade 5 - blank
- × Product shape:
 - Metal disc 98.3 mm Ø in different diameters and thicknesses
 - Metal rod blank in 8 to 24.5 mm diameter in various lengths
- × 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

2. Composition

	Elemental formula	Rest
Titanium	Ti	~ 90 %
Ferrum	Fe	0.13 %
Aluminium	Al	6.0 %
Vanadium	V	4.1 %
Oxygen	O	0.1 %
Hydrogen	H	0.001 %
Nitrogen	N	0.01 %
Carbon	C	0.03 %

3. Mechanical properties

Density	g/cm ³	4.45
Vickers hardness		353
Module of elasticity	kN/mm ²	114
CTE	MPa	836
Yield strength	MPa	897
Tensile strength	%	12
Fracture strain	10 ⁻⁶ /m. Celsius	10.3

4. Zfx™ Titanium G5 is ...

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

5. Indication

CopraTi-5 (titanium alloy Grade 5);
Single crowns up to big bridges and bar constructions in anterior and posterior region and superstructures

6. General information

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 110 µm (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.

7. Hazard note!



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

8. Contact Details

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Our products are subject to ongoing development. We therefore reserve the right to make changes in handling or composition.