



TITANIUM BLANKS

(Grade 5 ELI adhering to ASTM F 136 standards)



WHAT ARE TAGLUS TITANIUM BLANKS ?

The Taglus Titanium milling blanks are made of titanium alloys specifically Grade 5 ELI adhering to ASTM F 136 standards, with micro structure made of primary alpha in transformed beta matrix with no alpha grain boundaries, suitable for the manufacture of bridge structures, complex structures on implants, overdentures and implant abutments. Presents characteristics of biocompatibility, lightness & purity with outstanding machinability, it's the best metal present on the market for medical use.

FEATURES :

- Fully compatible with most CAD/CAM milling machine
- Biocompatible (Nickel and Beryllium Free!)
- High tensile strength
- Corrosion-resistant
- X-Ray radio-lucent
- Low thermal conductivity (15x lower than gold)
- Allows conventional cementation

ADVANTAGES :



Ideal for the production of implant bars, and abutments, Partial denture framework, crowns and bridges



Excellent biocompatibility



Easy to mill with perfect milling results



Excellent bonding of ceramics to titanium



Light weight

Technical Properties:

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- Ultimate Tensile Strength - 952 MPa
- Yield Strength - 863 MPa
- Vickers Hardness - 330HV5/30
- Density - 4.4g/cm³
- Elongation - 15 to 18%
- Reduction of Area (RA) - 45%
- CTE (20-600°C) - $10.3 \times 10^{-6} \text{ K}^{-1}$

Titanium (Grade 5 ELI) Sizes

| Diameter (mm) | Height (mm) | | | | | | |
|---------------|-------------|----|----|----|----|----|----|
| 98.3 | 10 | 12 | 14 | 15 | 16 | 18 | 25 |

COMPOSTION (IN % BY MASS)

- Ti** (Titanium) - 89.4%
- V** (Vandium) - 4%
- Al** (Aluminium) - 6.25%
- N,C,H, Fe,O** (Nitrogen, Carbon, Hydrogen,Iron, Oxygen)- <0.2%

CERTIFIED BY



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