TECHNICAL DATASHEET

Titane Ti 13Nb 13Zr
FT 00 – Version 0

Titanium BETA free of vanadium developed in the 90's for implants manufacturing. This grade has a low elasticity modulus, a high tensile strength and a very good biocompatibility.

APPLICATIONS	ADVANTAGES
Medical	Corrosion resistance Low elasticity modulus Biocompatibility
STANDARDS	**SHAPES**
ASTM F 1713	**BAR** On demand **SHEET/ PLATE** On demand

➢ CHEMICAL COMPOSITION

%	Fe	O	N	C	H	Nb	Zr	Ti
min						12.5	12.5	balance
max	0.25	0.15	0.05	0.08	0.012	14.0	14.0	

➢ MECHANICAL PROPERTIES

Rm Tensile strength (min MPa)	Rp0.2 Yield strength (min MPa)	Elongation (% min)	Necking (% min)
1030	900	15	30

➢ PHYSICAL PROPERTIES

Density (g/cm³)	4.99
Hardness (HV)	
Modulus of elasticity at 20°C (N/mm²)	79x10³
Thermal conductivity at 20°C (W/m °C)	
Mean coefficient of thermal expansion at 20-200°C (mm °C)	
Beta transus (°C)	882
Fusion temperature (°C)	1678

The information and technical data contained in this sheet are for information purposes only. Only the information written on our material analysis certificates will be official.