

Titanium and alloys

July 2016 - rev.1.0

TITAN GRADE 5 Nb

EN TiAl6Nb7

ASTM F1295

ISO 5832-11

CHEMICAL COMPOSITION %

C%	Fe%	O%	N%	H%	Al%	Nb %	Ta%	Ti%
Max	Max	Max	Max	Max	5,50	6,50	Max	balance
0,08	0,25	0,20	0,05	0,009	6,50	7,50	0,50	

USES AND APPLICATIONS

TITAN GRADE 5 Nb Ti-Al-Nb alloy, completing Titan Grade 5 (TiAl6V4 ELI) and offering a superior resistance to erosion or corrosive attacks, good workability and a singular biocompatibility.

This quality is well indicated for dental and medical sector and watchmaking industry.

EXECUTIONS

Diameters	1.00 - 15.00 mm
Tolerances	ISO h8 (up to h5)
Delivery conditions	in cold drawn or ground 3m bars and Coils

MECHANICAL PROPERTIES

Tensile Strength	≥ 900 N/mm ²
Proof stress	≥ 800 N/mm ²
Elongations	≥ 10 %
Constriction	≥ 25 %
Cutting speed	20 - 40 m/min
Infeed	0.08 - 0.15 mm/revolution
Cutting corner	- 100° / + 120° it is recommended to use polished tools
Lubrificant-cooling fluid i.e.	INOX or ORTHO Motorex

OTHER INFORMATION

Diagrams, treatment tabs or other information on request.