

Technical Datasheet: Nonferrous alloy type TA

General Notes

- Titanium Grade 1 (unalloyed titanium)
- engineering materials with extraordinary combination of properties: relatively low density (4.5 g/cm³), good mechanical properties and a very high melting point that allows the use at high temperatures (1600 °F, 870°C)
- good corrosion resistance at room temperature to air, marine and a variety of industrial environments
- good cold formability, high ductility
- fully non-magnetic
- generally it is used when in addition to the corrosion resistance, high strength-to-weight ratio is required
- bio-compatible (maintain cell integrity, no inflammatory response),
- typical applications include handling of components in cleaning/chemical processes also at high temperature, histology, biology, medicine, surgery.

Composition Component Ti O	Wt.% 99.5 ≤0.18	Component C N	Wt.% ≤0.1 ≤0.03	Component Fe H	Wt.% ≤0.2 ≤0.015	
Mechanical properties: State Density Hardness, Vickers Tensile strength, ultimate: Tensile strength, yield Elongation, break Modulus of elasticity		annealed 4.51 g/cm ³ 122 HV 330 MPa 240 MPa 30% 100 GPa				
Thermal properties Coef. of lin. therm expansion: Specific heat capacity Continuos use temperature: Thermal conductivity:		9.2 E-6/°C 0.52 J/(g⋅K) 350°C 16 W/(m⋅K)	0°C-315°(0		
Electrical properties Resistivity		0.45E-4 Ohm.o	0.45E-4 Ohm.cm			

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