

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 (100%)
- » 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	Wt.%	Component	Wt.%	Component	Wt.%
Ті	99.5	С	≤0.1	Fe	≤0.2
0	≤0.18	N	≤0.03	Н	≤0.015

Mechanical properties

State	annealed
Density	4.51 g/cm ³
Hardness, Vickers	190 HV
Tensile strength, ultimate	330 MPa
Tensile strength, yield	240 MPa
Elongation, break	30%
Modulus of elasticity	100 GPa

Thermal properties

Coef. of lin. therm expansion	9.2 E-6/°C	0°C-315°C
Specific heat capacity	0.52 J/(g K)	
Continuos use temperature	350°C	
Thermal conductivity	16 W/(m K)	

Electrical properties

Resistivity

0.45 E-4 Ohm.cm

This document contains information based on average values as obtained from the results of laboratory tests and observations made on the material. Ideal-tek SA declines all responsibility from an improper use of the product described in this document.

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