

Electronics

Tweezers SS High Precision Slim Tweezers



5 1/2" 140 mm Extra fine tips

SS.TA Titanium

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 corros ion 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	122 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-67°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 0.45E-4 Ohm.cm

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