

K5HP High Precision Tweezers Kit



High precision tweezers set 00, 2A, 3C, 5, 7
Top quality hard/foam wallet

K5HP.TA **Titanium (1.TA instead of 00.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	Wt.%	Component	Wt.%	Component	Wt.%
Ti	99.5	C	≤0.1	Fe	≤0.2
O	≤0.18	N	≤0.03	H	≤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)	
Continuous use temperature:	350°C	
Thermal conductivity:	16W/(m·K)	

Electrical properties

Resistivity	0.45E-4 Ohm.cm
-------------	----------------