

Electronics

Tweezers

5 High Precision Tweezers



4 1/4" 110 mm

Extra fine tips, superior finish

5.NC **Super Alloy**

General Notes

- Ni-Cr-Mo superalloy
- excellent strength from room temperature to 800°C
- six times harder than antimagnetic stainless steel
- resistant to fatigue, very high shape retention
- fully non-magnetic
- excellent corrosion resistance to most chemicals, salts and acids
- typical applications include non-magnetic tools for electronic and watch industry applications and for laboratory and medical applications in aggressive chemical environments.

Mechanical properties

State	50% cold reduction	
Density	8.4 g/cm ³	
Hardness Rockwell C	60-64	Highest hardness at tweezers tip
Tensile strength, ultimate:	1500 MPa	
Tensile strength, yield	1250	
Elongation, break	5%	
Modulus of elasticity	208 GPa	

Thermal properties

Coef. of lin. therm expansion:	12.8 E-6/°C	25°C-100°C
Coef. of lin. therm expansion:	13.4 E-6/°C	25°C-300°C
Specific heat capacity:	0.41 J/(g·K)	
Thermal conductivity:	10 W/(m·K)	
Continuous use temperature:	600°C	
Max service temperature, air	980°C	

Electrical properties

Resistivity	1.29E-4 Ohm.cm
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Credits