

All-Spec Stainless Steel Anti-Magnetic Precision Tweezers

Description

The All-Spec 342 Series of ESD-safe precision tweezers are designed for the electronic industry, laboratory and medical applications, in moderately aggresive chemical environments. The tweezers are made of low carbon austenitic stainless steel, and they also contain chromium, nickel, and molybdenum as additional alloying elements. They are non-magnetic, and they have good corrosion resistance to most chemicals, salts, and acids.



Product Specifications

Composition

Component	Wt. %
С	≤0.03
P	≤0.045
Мо	2.5 - 3.0
Si	≤1.0
S	≤0.03
Ni	12.5 - 15.0
Mn	≤2.0
Cr	17.0 - 19.0
Fe	60 - 65

Mechanical Properties

State	Annealed
Density	8.0 g/cm ³
Hardness HB30	≤215
Hadness Rockwell B	79
Tensile Strength, Ultimate	500 - 700 MPa
Tensile Strength, Yield	290
0.2% Yield Stress	≥200 MPa
Elongation Break	40%
Modulus of Elasticity	200 GPa

Thermal Properties

Coefficient of Linear Thermal Expansion between 20°-100° C (68°-212° F)	
Coefficient of Linear Thermal Expansion between 20° - 300° C (68°-572° F)	17.0 E-6/°C
Specific Heat Capacity	0.50 J/(g.K)
Thermal Conductivity	15 W/(m.K)
Continuous Use Temperature	350° C (662° F)
Maximum Service Air Temperature	925° C (1697° F)

Electrical Properties

Resistivity 0.75 x 10 ⁴ ohm/cm
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Products

Swiss Premium High Quality Tweezers

Part No.	
342-005	Style 00-SA Tweezers with Tapered Strong, Flat
	Edge Tips, 4-3/4" Long
342-008	Style 00D-SA Tweezers with Tapered Serrated Tips,
	4-3/4" Long
342-004	Style 2A-SA Tweezers with Flat Round Tips, 4-3/4"
	Long
342-002	Style 3-SA Tweezers with Fine Tapered Tips, 4-3/4"
	Long
342-007	Style 3C-SA Tweezers with Fine Tapered Tips, 4-
	1/4" Long
342-009	Style 4-SA Tweezers with Very Fine Tips, 4-1/4"
	Long
342-006	Style 5-SA Tweezers with Ultra Fine Tips, 4-1/4"
	Long
<u>342-003</u>	Style 7-SA Tweezers with Curved Tips, 4-3/4" Long
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Italian High Quality Tweezers

	Italian High Quality Tweezers		
Part No.	Description		
342-054	Style 00-SA Tweezers with Strong Flat Edge Tips, 4-3/4" Long		
<u>342-053</u>	Style 2A-SA Tweezers with Flat Round Tips, 4-3/4" Long		
<u>342-051</u>	Style 3-SA Tweezers with Fine Tapered Tips, 4-3/4" Long		
<u>342-056</u>	Style 3C-SA Tweezers with Fine Tapered Tips, 4-1/4" Long		
<u>342-055</u>	Style 5-SA Tweezers with Ultra Fine Tips, 4-1/4" Long		
342-052	Style 7-SA Tweezers with Curved Tips, 4-1/2" Long		
<u>342-050</u>	Style AA-SA Tweezers with Straight Fine Tips, 5" Long		

The values shown above were taken from random samples from material we believe to be typical for the product; however, actual values may vary somewhat from those listed above. All-Spec Industries makes no warranty, expressed or implied, as to the suitability of these materials for any specific use. Customers should determine product suitability based upon their own initial criteria and testing.