Electronics
Tweezers
7 High Precision Tweezers

4 1/2"  115 mm
Very fine, curved

7-SA  Anti-Magnetic Anti-Acid Stainless Steel

General Notes
- low carbon austenitic steel (Material number 1.4435, DIN X2CrNiMo18-14-3, AISI number 316L)
- contains from 16.5 to 18.5 wt% chromium and has important quantities of nickel and molybdenum as additional alloying elements
- non-magnetizable
- good corrosion resistance to most chemicals, salts and acids
- generally used where corrosion resistance and toughness are primary requirements
- typical applications include tweezers for the electronic industry, watch-makers, jewelers and laboratory and medical applications in moderately aggressive chemical environments

Composition
### Mechanical properties:

- **State**: annealed
- **Density**: 8.0 g/cm³
- **Hardness HB30**: ≤215
- **Hardness 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

- **Coef. of lin. therm expansion**: 16.0 E-6/°C, 20°C-100°C
- **Coef. of lin. therm expansion**: 17.0 E-6/°C, 20°C-300°C
- **Specific heat capacity**: 0.50 J/(g·K)
- **Thermal conductivity**: 15W/(m·K)
- **Continuous use temperature**: 350°C
- **Max service temperature, ait**: 925°C

### Electrical properties

- **Resistivity**: 0.75 E-4 Ohm.cm

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Credits