Tweezers

Angled/Flat/Fine, 120 mm

Specification

- Austenitic steel (Material number 1.4301, DIN X5CrNi1810, AISI number 304)
- Contains from 17.5 to 20 wt% chromium and has important quantities of nickel
- Non-magnetizable
- Good corrosion resistance to a wide range of atmospheric environments and many corrosive media
- Generally used where corrosion resistance and toughness are primary requirements
- Typical applications include tweezers for the electronic industry, screws, machinery parts and food-handling equipment

Composition

Component	Wt.%	Component	Wt.%	Component	Wt.%
C	≤0.08	**Si**	≤1.0	**Mn**	≤2.0
P	≤0.045	**S**	≤0.03	**Cr**	17.5-20.0
Mo	2.5-3.0	**Ni**	8.0-11.0		

Mechanical Properties

State	**annealed**
Density	**8.0 g/cm^3**
Hardness HB30	**≤ 175**
Hardness Rockwell B	**84**
Tensile strength, ultimate	**600 MPa**
Tensile strength, yield	**330**
0.2% Yield stress	**≥ 290 MPa**
Elongation, break	**55%**
Modulus of elasticity	**193 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	**16 W/(m·K)**	
Continuos use temperature	**350°C**	
Max service temperature, air	**925°C**	

Electrical Properties

Resistivity	**0.72 E-4 Ohm.cm**

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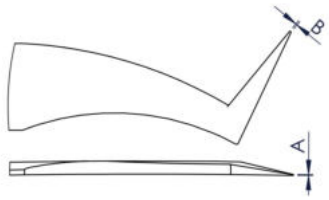
Product Dimensions



Product OAL (mm - in)	120.00 - 4.724
Product width (mm - in)	10.00 - 0.394
Product height (mm - in)	10.00 - 0.394
Tip thickness A (mm - in)	0.10 - 0.004
Tip width B (mm - in)	0.20 - 0.008
Net weight (g-lb)	17 - 0.037
Degree of bending	90

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