

# Tweezers

## Straight/Fine, 110 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	<b>annealed</b>
Density	<b>8.0 g/cm<sup>3</sup></b>
Hardness HB30	<b>≤ 175</b>
Hardness Rockwell B	<b>84</b>
Tensile strength, ultimate	<b>600 MPa</b>
Tensile strength, yield	<b>330</b>
0.2% Yield stress	<b>≥ 290 MPa</b>
Elongation, break	<b>55%</b>
Modulus of elasticity	<b>193 GPa</b>

### Thermal Properties

Coef. of lin. therm expansion	<b>16.0 E-6/°C</b>	<i>20°C-100°C</i>
Coef. of lin. therm expansion	<b>17.0 E-6/°C</b>	<i>20°C-300°C</i>
Specific heat capacity	<b>0.50 J/(g·K)</b>	
Thermal conductivity	<b>16 W/(m·K)</b>	
Continuos use temperature	<b>350°C</b>	
Max service temperature, air	<b>925°C</b>	

### Electrical Properties

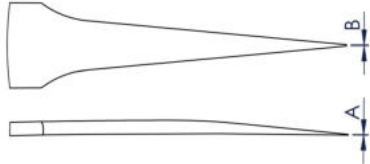
Resistivity	<b>0.72 E-4 Ohm.cm</b>
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### Product Dimensions



Product OAL (mm - in)	110.00 - 4.331
Product width (mm - in)	10.00 - 0.394
Product height (mm - in)	11.00 - 0.433
Tip thickness A (mm - in)	0.10 - 0.004
Tip width B (mm - in)	0.10 - 0.004
Net weight (g-lb)	13 - 0.029

### Art. Nr.

RND 550-00311