

Technical Datasheet: Stainless steel type SA

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

Component	Wt.%	Component	Wt.%	Component	Wt.%
C	≤0.03	Si	≤1.0	Mn	≤2.0
Р	≤0.045	S	≤0.03	Cr	17.0-19.0
Мо	2.5-3.0	Ni	12.5-15.0		

Mechanical properties:

StateannealedDensity8.0 g/cm³Hardness HB30≤215Hardness Rockwell B79

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: 15 W/(m·K)
Continuos use temperature: 350°C
Max service temperature, air 925°C

Electrical properties

Resistivity 0.75 E-4 Ohm.cm

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