

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 (80%)
- » 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
P	≤0.045	S	≤0.03	Cr	17.0-19.0
Mo	2.5-3.0	Ni	12.5-15.0		

Mechanical properties

State	annealed
Density	8.0 g/cm³
Hardness, Vickers	230 HV
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)	
Continuous use temperature	350°C	
Max service temperature, air	925°C	

Electrical properties

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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Soldering & Desoldering Stations](#) category:

Click to view products by [Ideal-Tek](#) manufacturer:

Other Similar products are found below :

[GS1116](#) [WESD51D](#) [BH-010](#) [T0058768747](#) [CA0202](#) [CA0201](#) [WXD2N](#) [Q-7100-9000](#) [ALFA](#) [T0058757898](#) [WXD2010N](#) [T0058768762](#)
[145-2000-ESDN](#) [T0058758721N](#) [0008473](#) [WTL1000-1](#) [700-3051-ESD](#) [0051514699N](#) [0051512199N](#) [T0058768725N](#) [ZD-415R](#) [ZD-415R-H](#)
[WELPB102](#) [CVC-7CN0004P](#) [CVC-9CH0025S](#) [CVC-8CH0010S](#) [CV-H5-DSHP](#) [AP-SF](#) [AT-SA](#) [AT-SB](#) [DN-SF](#) [DR-SF](#) [DS-SF](#) [HD-SF](#)
[0016344](#) [00B.SA.0](#) [0120CDK](#) [0551903](#) [0DIG20A45](#) [0IC1100A](#) [0ICV2000XV](#) [0T56](#) [CL-SFE/1 FILTERS](#) [PX0410/03P/5055](#) [RA150](#)
[10G.SA.0](#) [36A.SA](#) [3C.SA](#) [3.TA](#) [AT850D/P](#)