

Stainless steel type S

General notes:

- » Martensitic higher carbon steel (Material number 1.4034, DIN X46Cr13, AISI number 420)
- » contains from 12.5 to 14.5 wt% chromium
- » magnetizable
- » can be hardened by heat treatment, forming should be done in the annealed condition
- » less resistant to corrosion than the austenitic or ferritic grades
- » used where strength and/or hardness are of primary concern and where the environment is relatively mild from a corrosive standpoint
- » typical applications include tweezers and cutting tools for the electronic industry, watch-makers, jewelers and laboratory and medical applications in mild aggressive chemical environments

Composition

Component	Wt.%	Component	Wt.%	Component	Wt.%
С	0.43-0.50	Si	≤1.0	Mn	≤1.0
Р	≤0.04	S	≤0.03	Cr	12.5-14.5

Mechanical properties

State	annealed	
Density	7.7 g/cm ³	
Hardness, Vickers	680 HV	
Tensile strength, ultimate	615-625 MPa	
0.2% Yield stress	≥ 300 MPa	
Modulus of elasticity	215 GPa	

Thermal properties

Coef. of lin. therm expansion	10.5 E-6/°C	20°C-100°C
Coef. of lin. therm expansion	11.5 E-6/°C	20°C-300°C
Specific heat capacity	0.46 J/(g K)	
Thermal conductivity	30 W/(m K)	

Electrical properties

Resistivity

0.55 E-4 Ohm.cm

This document contains information based on average values as obtained from the results of laboratory tests and observations made on the material. Ideal-tek SA declines all responsibility from an improper use of the product described in this document.

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