

Technical Datasheet: Carbon steel type C

General Notes

- Carbon steel (Material number 1.1221, Ck60, AISI 1060)
- contains from 0,57-0,65 wt% carbon
- magnetizable
- will be hardened by heat treatment, max. hardness 57 HRC
- poor resistance to corrosion
- used where strength and/or hardness are of primary concern.
- typical applications include tweezers and cutting tools for the electronic industry, watch-makers, jewelers applications.

Composition

Component	Wt.%	Component	Wt.%	Component	Wt.%
С	0.57-0.65	Si	0,15-0,35	Cr	≤0.4
P	<0.035	S	<0.035		

Mechanical properties:

State

7.9 g/cm³ Density 55-57 HRC Hardness Tensile strength, ultimate: 850-1000 MPa 0.2% Yield stress 550 MPa 200 GPa

Thermal properties

Modulus of elasticity

Coef. of lin. therm expansion: 11 E-6/°C 20°C-100°C Coef. of lin. therm expansion: 12 E-6/°C 20°C-300°C

0.502 J/(g·K) Specific heat capacity: Thermal conductivity: 52 W/(m·K)

Electrical properties

0.18 E-4 Ohm.cm Resistivity

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