

Alloy 400

Chemical Properties

Element	Chemical Composition %
Carbon (C)	0.30 max
Copper (Cu)	28.0 - 34.0 max
Iron (Fe)	2.5 max
Manganese (Mn)	2.0 max
Nickel (Ni)	63.0 min
Phosphorous (P)	0.030 max
Lead (Pb)	0.005 max
Sulphur (S)	0.024 max
Silicon (Si)	0.5 max

Mechanical Properties

Property	Value
Ultimate Tensile Strength	480 N/mm ²
0.2% Proof Stress	170 N/mm ²
Elongation	35%
Hardness HRC (max)	35

Physical Properties

Property	Value
Density (Kg/m ⁻³)	88.3
Young's Modulus (N/mm ²)	179 x 10 ³
Specific Heat, 20°C	419
Specific Electrical Resistance, 20°C	0.51
Thermal Conductivity, °C	21.8

Product Forms

Round Bar

Disclaimer

This data is indicative only and as such is not to be relied upon in place of the full specification. In particular, mechanical property requirements vary widely with temper, product and product dimensions. All information is based on our present knowledge and is given in good faith. No liability will be accepted by the Company in respect of any action taken by any third party in reliance thereon.

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