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Data Sheet: CRS 1010

Physical Properties of Bulk Material

Typical Physical Properties:

Density:	.302 lb/in ³
Specific Gravity:	8.36
Melting Point:	1450 °C
Specific Heat:	.45 kJ/kg*K
Coefficient of Thermal Expansion:	11.9 μm/m*K
Thermal Conductivity:	46 W/m*K
Electrical Resistivity:	143nΩ*m

Typical Mechanical Properties:

Ultimate Strength:	330-370 MPa
Yield Strength:	280-300 MPa
Elongation:	19.8 %

Hardness (Brinell): 90-105 HB

Typical Analysis in Percent:

Fe Balance, .08-.13% C, .3-.4% Mn, .03% max Si, .03% max S, .03% max P
and .02-.06% Al.

Areas of Application

Cold Rolled Steel (CRS) SAE type 1010 is a low alloyed steel that is drawn /rolled cold for obtaining superior surface finish and increased hardness. It is usually produced in bar/rod form and rolled/extruded in it final form. Depending further processing, CRS1010 is available in hard, half-hard and annealed condition.

Above Physical data are obtained from literature.

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