

Standardization and composition

Mechanical properties of the weld joint (standard data)

ISO 24373	CuSi2Mn1 Cu6511
Heat treatment	non treated
Tensile strength (MPa)	285
Elongation (%)	45
Brinell hardness (HB 2.5/62.5)	62
Notched bar impact test (Av (J))	75
Resistivity ($\Omega \times \text{mm}^2 / \text{m}$)	0.188 - 0.213

MIG: Pulsed power welding is recommended.

TIG: Preheating to about 250° - 300 °C is recommended for sheet thicknesses of more than 3.00 mm.

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ISO 24373	CuSi2Mn1 Cu6511
Cu	balance
Si	1.70 - 1.90
P	0.008 - 0.012
Mn	0.90 - 1.10
Sn	0.17 - 0.25

Physical properties

Density (kg/dm^3)	8.7
Melting range (°C)	1030 - 1050
Thermal conductivity ($\text{W} / \text{m} \times \text{K}$)	40
Coefficient of linear mean expansion (10-6/K)	18.1
Electric conductivity ($\text{m} / \Omega \times \text{mm}^2$)	4.7 - 5.3
Resistivity ($\Omega \times \text{mm}^2 / \text{m}$)	0.188 - 0.213

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Delivery options

Make-up	Weight/Length	Dimension
Drum / bedradox	175 - 200 kg	0.80 - 1.60 mm
SD300 / BS300 / K300	12 - 15 kg	0.80 - 2.40 mm
H500 / H560 / H760	150 - 250 kg	0.80 - 2.40 mm
Coils	25 - 100 kg	1.60 - 6.00 mm
Rods	250 - 3000 mm	1.60 - 6.00 mm

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