

Standardization and composition

Mechanical properties of the weld joint (standard data)

ISO 24373	CuSn12P Cu5410
Heat treatment	non treated
Tensile strength (MPa)	320
Elongation (%)	5
Brinell hardness (HB 2.5/62.5)	120
Notched bar impact test (Av (J))	8
Resistivity ($\Omega \times \text{mm}^2 / \text{m}$)	0.20 - 0.333

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ISO 24373	CuSn12P Cu5410
Cu	balance
Sn	12.00 - 13.00
P	0.15 - 0.25
Others	max. 0.5

Physical properties

Density (kg/dm^3)	8.6
Melting range ($^{\circ}\text{C}$)	825 - 990
Thermal conductivity ($\text{W} / \text{m} \times \text{K}$)	40 - 50
Coefficient of linear mean expansion (10-6/K)	18.5
Electric conductivity ($\text{m} / \Omega \times \text{mm}^2$)	3 - 5
Resistivity ($\Omega \times \text{mm}^2 / \text{m}$)	0.20 - 0.333

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Delivery options

Make-up	Weight/Length
Drum / bedrabox	175 - 200 kg
SD300 / BS300 / K300	12 - 15 kg
H500 / H560 / H760	150 - 250 kg
Coils	25 - 100 kg
Rods	250 - 3000 mm
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