

Standardization and composition

Mechanical properties of the weld joint (standard data)

ISO 24373	CuAl7 Cu6100
Heat treatment	non treated
Tensile strength (MPa)	430
Elongation (%)	40
Brinell hardness (HB 2.5/62.5)	100
Notched bar impact test (Av (J))	100
Resistivity ($\Omega \times \text{mm}^2 / \text{m}$)	0.11 - 0.143
ISO 24373	CuAl7 Cu6100
Cu	balance
Al	7.50 - 8.00
Mn	0.10 - 0.30
Ni	0.10 - 0.50
Others	max. 0.5

Physical properties

Density (kg/dm^3)	7.7
Melting range ($^{\circ}\text{C}$)	1030 - 1040
Thermal conductivity ($\text{W} / \text{m} \times \text{K}$)	65
Coefficient of linear mean expansion ($10^{-6}/\text{K}$)	17
Electrical conductivity ($\text{m} / \Omega \times \text{mm}^2$)	7 - 8
Resistivity ($\Omega \times \text{mm}^2 / \text{m}$)	0.11 - 0.143

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Delivery options

Make-up	Weight/Length	Dimension
Drum / bedrabox	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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