

Standardization and composition

Mechanical properties of the weld joint (standard data)

ISO 24373	CuAl10Fe Cu6180
Heat treatment	non treated
Tensile strength (MPa)	500
Elongation (%)	35
Brinell hardness (HB 2.5/62.5)	140
Notched bar impact test (Av (J))	95
Resistivity ($\Omega \times \text{mm}^2 / \text{m}$)	0.154

Standardization and composition

ISO 24373	CuAl10Fe Cu6180
Cu	balance
Al	8.5 - 11
Fe	max. 1.5
Others	max. 0.5

Physical properties

Density (kg/dm^3)	7.6
Melting range ($^{\circ}\text{C}$)	1030 - 1040
Thermal conductivity ($\text{W} / \text{m} \times \text{K}$)	55
Coefficient of linear mean expansion (10-6/K)	16.5
Electrical conductivity ($\text{m} / \Omega \times \text{mm}^2$)	6.5 - 7.5
Resistivity ($\Omega \times \text{mm}^2 / \text{m}$)	0.154

Mechanical properties of the weld joint (standard data)

Heat treatment	non treated
Tensile strength (MPa)	500
Elongation (%)	35
Brinell hardness (HB 2.5/62.5)	140
Notched bar impact test (Av (J))	95

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
Coils	25 - 100 kg	1.60 - 6.00 mm
Rods	250 - 3000 mm	1.60 - 6.00 mm