Standardization and composition

ISO 24373	CuAl5Ni2Mn Cu6061
Cu	balance
Al	4.5 - 5.0
Ni	1.6 – 2.0
Mn	0.1 – 0.5
Others	max. 0.5

Physical properties

Density (kg/dm³)	8.2
Melting range (°C)	1060 - 1085
Thermal conductivity (W / m x K)	61
Coefficient of linear mean expansion (10-6/K)	17.5
Electrical conductivity (m / Ω x mm²)	8.0 - 8.8
Resistivity (Ω x mm² /m)	0.114 - 0.125

Mechanical properties of the weld joint (standard data)

Heat treatment	non treated
Tensile strength (MPa)	353
Elongation (%)	45
Brinell hardness (HB 2.5/62.5)	84
Notched bar impact test (Av (J))	161

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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