

Mechanical properties of the weld joint (standard data)

ISO 24373	CuAl9Ni5Fe3Mn2 Cu6328
Heat treatment	non treated
Tensile strength (MPa)	690
Elongation (%)	19
Brinell hardness (HB 2.5/62.5)	min. 200
Notched bar impact test (Av (J))	68
Resistivity ($\Omega \times \text{mm}^2 / \text{m}$)	0.20 - 0.25

Standardization and composition

ISO 24373	CuAl9Ni5Fe3Mn2 Cu6328
Cu	balance
Al	8.50 - 9.50
Ni	4.00 - 5.50
Fe	3.00 - 5.00
Mn	0.60 - 3.50
Others	max. 0.5

Physical properties

Density (kg/dm^3)	7.5
Melting range ($^{\circ}\text{C}$)	1015 - 1045
Thermal conductivity ($\text{W} / \text{m} \times \text{K}$)	20 - 40
Coefficient of linear mean expansion ($10^{-6}/\text{K}$)	19.3
Electrical conductivity ($\text{m} / \Omega \times \text{mm}^2$)	3 - 4
Resistivity ($\Omega \times \text{mm}^2 / \text{m}$)	0.20 - 0.25

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Delivery options

Make-up	Weight/Length	Dimension
SD300 / BS300 / K300	15 kg	1.20 / 1.60 mm

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