

Standardization and composition

Mechanical properties of the weld joint (standard data)

ISO 24373	CuNi30Mn1FeTi Cu7158
Heat treatment	non treated
Tensile strength (MPa)	420
Elongation (%)	36
Brinell hardness (HB 2.5/62.5)	115
Notched bar impact test (Av (J))	240
Resistivity ($\Omega \times \text{mm}^2 / \text{m}$)	0.333

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ISO 24373	CuNi30Mn1FeTi Cu7158
Cu	balance
Ni	30.70 - 31.30
Mn	0.60 - 1.00
Fe	0.40 - 0.70
Ti	0.30 - 0.50
Others	max. 0.5

Physical properties

Density(kg/dm^3)	8.9
Melting range ($^{\circ}\text{C}$)	1180 - 1240
Thermal conductivity ($\text{W} / \text{m} \times \text{K}$)	30
Coefficient of linear mean expansion (10-6/K)	17.3
Electric conductivity ($\text{m} / \Omega \times \text{mm}^2$)	2.7 - 3.3
Resistivity ($\Omega \times \text{mm}^2 / \text{m}$)	0.333

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Delivery options

Make-up	Weight/Length	Dimension
Drum / bedradox	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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