

bercoweld® N10 is well suited for highly stressed, corrosion-resistant buildup welds on cast iron and on unalloyed and low-alloy steels, seawater-resistant CuZn alloys. Well suited for welding on CuNi materials. Especially recommended for plant construction.

Standardization and composition

ISO 24373	CuNi10 Cu7061
Cu	balance
Ni	10.20 - 10.70
Mn	0.60 - 1.00
Fe	1.00 - 1.50
Ti	0.30 - 0.50
Others	max. 0.5

Physical properties

Density (kg/dm³)	8,9
Melting range (°C)	1100 - 1145
Thermal conductivity (W / m x K)	30
Coefficient of linear mean expansion (10-6/K)	17
Electricric conductivity (m / Ω x mm²)	2,8 - 3,2
Resistivity (Ω x mm² / m)	0,313 - 0,357

Mechanical properties of the weld joint (standard data)

Heat treatment	non treated
Tensile strength (MPa)	300
Elongation (%)	34
Brinell hardness (HB 2,5/62,5)	80
Notched bar impact test (Av (J))	190

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