

bercoweld® M122 is a special welding wire for solenoid valves. High pressure resistance and high wear resistance. For steels of all types.

Standardization and composition

ISO 24373	CuZ (CuMn12Ni2)
Cu	balance
Ni	2.00 - 2.50
Mn	12.00 - 13.00
Others	max. 0.5

Physical properties

Density (kg/dm³)	8.4
Melting range (°C)	950 - 970
Thermal conductivity (W / m x K)	22
Coefficient of linear mean expansion (10⁻⁶/K)	18.3
Electric conductivity (m / Ω x mm²)	2.2 - 2.4
Resistivity (Ω x mm² / m)	0.42 - 0.45

Mechanical properties of the weld joint (standard data)

Heat treatment	non treated
Tensile strength (MPa)	400
Elongation (%)	40
Brinell hardness (HB 2.5/62.5)	100
Notched bar impact test (Av (J))	100

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