

bercoweld® A52 is made of CuAl alloys, like Al bronze with 5-6% Al, copper and copper alloys. Very suitable for hard soldering and welding galvanized steels. Very good corrosion and wear resistance. Preheating is recommended for large workpieces.

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 / 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