

bercoweld® A300 is a high-strength welding wire, also spark-proof. Resistant to seawater, wear, and abrasion. Resistant to cavitation and erosion. Buildup and join welding on aluminum bronzes. Especially for ship propellers, slide rails, raceways, valve control housings.

Standardization and composition

ISO 24373	CuMn13Al8Fe3Ni2 Cu6338
Cu	balance
AL	7.00 - 8.50
Ni	1.50 - 3.00
Fe	2.00 - 4.00
Mn	11.00 - 14.00
Others	max. 0.5

Physical properties

Density (kg/dm³)	7.4
Melting range (°C)	945 - 985
Thermal conductivity (W / m x K)	30
Coefficient of linear mean expansion (10-6/K)	21.5
Electrical conductivity (m / Ω x mm²)	3 - 5
Resistivity (Ω x mm² / m)	0.20 - 0.333

Mechanical properties of the weld joint (standard data)

Heat treatment	non treated
Tensile strength (MPa)	900
Elongation (%)	10
Brinell hardness (HB 2.5/62.5)	290
Notched bar impact test (Av (J))	180

Delivery options

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