

bercoweld® Ms83 is a Cu-alloy wire electrode for MIG and TIG welding.

Standardization and composition

ISO 24373	CuZ (CuZn17)
Cu	81.0 - 84.0
Zn	balance
Fe	max. 0.05
Pb	max. 0.05
Others	max. 0.2

Physical properties

Density (kg/dm³)	8,75
Melting range (°C)	985 - 1020
Thermal conductivity (W / m x K)	148
Coefficient of linear mean expansion (10⁻⁶/K)	18,6
Electric conductivity (m / Ω x mm²)	20 - 22
Resistivity (Ω x mm² / m)	0,045 - 0,05

Mechanical properties of the weld joint (standard data)

Heat treatment	non treated
Tensile strength (MPa)	220
Elongation (%)	35
Brinell hardness (HB 2.5/62.5)	70
Notched bar impact test (Av (J))	55

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