

bercoweld® S3 is used for galvanized body panels in the automotive industry, coatings on low-alloy steels, solenoid valves and switch cabinets.

Standardization and composition

ISO 24373	CuSi3Mn1 Cu6560
Cu	balance
Mn	0.75 - 0.95
Si	2.80 - 2.95
Others	max. 0.5

Physical properties

Density(kg/dm³)	8.5
Melting range (°C)	965 - 1035
Thermal conductivity (W / m x K)	35
Coefficient of linear mean expansion (10⁻⁶/K)	18.1
Electric conductivity (m / Ω x mm²)	3.5 - 4.0
Resistivity (Ω x mm² / m)	0.25 - 0.286

Mechanical properties of the weld joint (standard data)

Heat treatment	non treated
Tensile strength (MPa)	350
Elongation (%)	40
Brinell hardness (HB 2.5/62.5)	80
Notched bar impact test (Av (J))	60

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