

**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

<b>ISO 24373</b>	CuSi3Mn Cu6560
<b>Cu</b>	balance
<b>Mn</b>	0.75 - 0.95
<b>Si</b>	2.80 - 2.95
<b>Others</b>	max. 0.5

## Physical properties

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

## Mechanical properties of the weld joint (standard data)

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

## Delivery options

<b>Make-up</b>	<b>Weight/Length</b>	<b>Dimension</b>
<b>Drum / bedradox</b>	175 - 200 kg	0.80 - 1.60 mm
<b>SD300 / BS300 / K300</b>	12 - 15 kg	0.80 - 2.40 mm
<b>H500 / H560 / H760</b>	150 - 250 kg	0,80 - 2.40 mm
<b>Coils</b>	25 - 100 kg	1.60 - 6.00 mm
<b>Rods</b>	250 - 3000 mm	1.60 - 6.00 mm