

**bercoweld® A35** is used for welding cast and forge parts made of nickel-aluminum-bronze in shipbuilding (ship propellers, etc.), parts for power stations including valves, sieves, pumps, pipe systems, as well as for apparatus engineering and food containers. Buildup welding on steel and AlBz, including multi-material alloys. The weld metal is resistant to seawater and corrosion and is also resistant to wear (for example, simultaneous exposure to seawater, cavitation, and erosion).

## Standardization and composition

<b>ISO 24373</b>	CuAl9Ni5Fe3Mn2 Cu6328
<b>Cu</b>	balance
<b>Al</b>	8.50 - 9.50
<b>Ni</b>	4.00 - 5.50
<b>Fe</b>	3.00 - 5.00
<b>Mn</b>	0.60 - 3.50
<b>Others</b>	max. 0.5

## Physical properties

<b>Density (kg/dm<sup>3</sup>)</b>	7.5
<b>Melting range (°C)</b>	1015 - 1045
<b>Thermal conductivity (W / m x K)</b>	20 - 40
<b>Coefficient of linear mean expansion (10<sup>-6</sup>/K)</b>	19.3
<b>Electrical conductivity (m / Ω x mm<sup>2</sup>)</b>	3 - 4
<b>Resistivity (Ω x mm<sup>2</sup> / m)</b>	0.20 - 0.25

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

<b>Heat treatment</b>	non treated
<b>Tensile strength (MPa)</b>	690
<b>Elongation (%)</b>	19
<b>Brinell hardness (HB 2.5/62.5)</b>	min. 200
<b>Notched bar impact test (Av (J))</b>	68

## Delivery options

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