

# BERCOWELD<sup>®</sup> A300 (Maxal 300)

Cu-alloy wire electrode for MAG and MIG welding.

**Standard designation** ISO 24373 : Cu 6338 CuMn13Al8Fe3Ni2

**Composition** (weight %)

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 standard data

Density	kg/dm <sup>3</sup>	: 7,4
Melting range	° C	: 945-985
Thermal conductivity	W/m· K	: 30
Coefficient of linear mean expansion (20°C-300°C)	1/ K	: 21,5 ·10 <sup>-6</sup>
Electric conductivity	m/Ω·mm <sup>2</sup>	: 3-5
Resistivity	Ω·mm <sup>2</sup> /m	: 0,20-0,333

## Mechanical properties of the weld joint, standard data

Heat treatment		non treated
Tensile strength	N/mm <sup>2</sup>	: 900
Elongation	%	: 10
Brinell hardness	HB 2,5/62,5	: 290
Notched bar impact test	A <sub>v</sub> ( J )	: 180

## Angage of application

High-strength alloy, also safe in regard to sparking. Resistant to sea water, wear and abrasion. Resistant to cavitation and erosion. Build-up and join welding on aluminium bronzes. Specially for ships' propellers, slide rails, raceways, valve control housings.

## Recommendation

Applicable inert gas Argon 4.8/ 5.0/ 5.3/ 5.6/ 6.0

## Make up

Diameter: 0,80 (on request) - 1,00 - 1,20 mm.  
Spools: D 300, K300 and wire basket spools (acc. to DIN 8559).  
Further make ups on request.

[www.bercoweld.com](http://www.bercoweld.com)