BERCOWELD® A8  (AlBz8)

Cu-alloy wire electrode for MIG and TIG welding

Standard designation

ISO 24373 : Cu 6100  CuAl7

Composition (weight %)

Cu : balance
Al : 7,50-8,00
Mn : 0,10-0,30
Ni : 0,10-0,50
Others : max. 0,5

Physical standard data

Density kg/dm³ : 7,7
Melting range ° C : 1030-1040
Thermal conductivity W/m·K : 65
Coefficient of linear mean expansion (20°C-300°C) 1/ K : 17·10⁻⁶
Electric conductivity m/Ω·mm² : 7-9
Resistivity Ω·mm²/m : 0,11-0,143

Mechanical properties of the weld joint, standard data

Heat treatment non treated
Tensile strength N/mm² : 430
Elongation % : 40
Brinell hardness HB 2,5/62,5 : 100
Notched bar impact test Aᵥ ( J ) : 100

Range of application

CuAl alloys, e.g. Al-bronze with 7-9% Al, copper and copper alloys. It possesses very good anti-corrosion and anti-wearing properties. It is recommended that large work pieces be pre-heated. Highly suitable for galvanized high-strength steels.

Recommendation

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

Make up

Diameter: 0,80 - 1,00 - 1,20 - 1,60 - and 2,40 mm.
Spools: D 300, H 370 and wire basket spools (acc. to DIN 8559).
Rods: 2,00 - 6,00 mm ∅ x 1000 mm.
Further make ups on request.

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