TECHNICAL SHEET
CuAg

Product name
CuAg

Class of product
Cu alloy wire for MIG / TIG welding.

Corresponding standards
ISO 24373 CuAg1 Cu 1897
DIN 1733 SG-CuAg
Werkstoff nr. 2.1211
BS 2901 P.3 C1A
AWS A5.7-84 ------

Nominal composition (weight %)
Cu: balance
Ag: 0.80 – 1.00
P: 0.025 – 0.050
Mn: 0.05 – 0.12
Others: 0.5 max

Physical and technical properties
Melting range: 1.070 – 1.080 °C
Density: 8.9 g/cm³
Thermal conductivity: 220 - 315 W/m·K
Coeff. of linear mean expansion (20-300°C): 17.7 · 10⁻⁶·1/K
Electric conductivity: 38 - 40 m/Ω·mm²
Resistivity: 0.025 – 0.0263 Ω·mm²/mm

Mechanical properties of welded joint (not treated, standard data)
Tensile strength: 200 N/mm²
Elongation: 30 %
Brinell Hardness: 60 HB 2,5/62,5
Notched bar impact test: 75 Av (J)

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

Range of application
CuAg is a copper based, silver alloyed wire suitable for MIG and TIG welding.
The material exhibits good flowing properties.
For wall thicknesses above 3 mm, preheating is advised.

Characteristics make-up
Rods: Ø 2.0 – 6.0 mm
Wires: Ø 0.8 – 1.0 – 1.2 – 1.6 – 2.4 mm

Other dimensions are available upon request.

NOTE:
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