

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/cm ³
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·mm ²
Resistivity:	0,025 – 0,0263 Ω·mm ² /mm

Mechanical properties of welded joint (not treated, standard data)

Tensile strength:	200 N/mm ²
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 Length: 1.000 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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