

TECHNICAL SHEET



CuAg

Product name

CuAg

Class of product

Cu alloy wire for MIG / TIG welding

Corresponding standards

DIN1733 SG-CuAg

Werkstoff nr. 2.1211

BS 2901P.3 C1A

AWS A5.7 ---

Composition (weight %)

Cu: balance

Sn: 0,80 – 1,00

P: 0,008 – 0,020

Mn: 0,04 – 0,10

Others: 0,5 max

Physical characteristics

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): $17,7 \cdot 10^{-6}$ 1/K

Electric conductivity: 44 - 46 m/Ω·mm²

Resistivity: 0,0217 – 0,0227 Ω·mm²/mm

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

Tensile strength: 200 N/mm²

Elongation 30 %

Brielle Hardness 60 HB 2,5/62,5

Notched bar impact test 75 A_v (J)

Range of application:

CuAg is a copper based, silver alloyed wire suitable for MIG and TIG welding.

The material exhibits good flowing properties and high electric conductivity.

For wall thicknesses above 3 mm, preheating is advised.

Applicable inert gas:

Argon 4.8/5.0/5.3/5.6/6.0

Characteristics Make-up:

Rods

Wires

The above data are subject to change without notice by Spring.

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