

TECHNICAL SHEET



CuAl8

Product name

CuAl8

Class of product

Cu alloy wire for MIG / TIG welding

Corresponding standards

DIN1733 SG-CuAl8

AWS A5.7 ERCuAl-A1

Composition (weight %)

Cu: balance

Al: 7,50 – 8,00

Mn: 0,10 – 0,30

Ni: 0,10 – 0,50

Others: 0,5 max

Physical characteristics

Melting range: 1.030 – 1.040 °C

Density: 7,7 g/cm³

Thermal conductivity: 65 W/m·K

Coeff. of linear mean expansion (20-300°C): $17 \cdot 10^{-6}$ 1/K

Electric conductivity: 7 - 9 m/Ω·mm²

Resistivity: 0,11 – 0,143 Ω·mm²/mm

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

Tensile strength: 430 N/mm²

Elongation 40 %

Brielle Hardness 100 HB 2,5/62,5

Notched bar impact test 100 A_v (J)

Range of application:

CuAl8 is copper-aluminum alloy wire suitable for MIG and TIG welding.

It possesses very good anti-corrosion and anti-wearing properties.

Pre-heating is advisable for large pieces.

CuAl8 is recommended for joining galvanized, high-strength steels.

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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