

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

Nominal composition (weight %)

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

Physical and technical properties

Melting range:	1.030 – 1.040 °C
Density:	7,7 g/cm ³
Thermal conductivity:	65 W/m·K
Coeff. of linear mean expansion (20-300°C):	17 · 10 ⁻⁶ 1/K
Electric conductivity:	7 - 9 m/Ω·mm ²
Resistivity:	0,11 – 0,143 Ω·mm ² /mm

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

Tensile strength:	430 N/mm ²
Elongation	40 %
Brinell Hardness	100 HB 2,5/62,5
Notched bar impact test	100 Av (J)

Applicable inert gas

Argon 4.8/5.0/5.3/5.6/6.0

Range of application

CuAl8 is copper-aluminium 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.

Characteristics make-up

Rods
Wires

NOTE:

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