

## MT- CuAl 8

## 2.0921

Copper aluminium MIG welding wire.

### Standard designation

DIN 1733	SG-CuAl 8
Material No.	2.0921
AWS/ASME SFA-5.7	ER CuAl - A 1

### Main fields of application

Copper aluminium alloys, e.g. Albronze containing 7-9% Al, welded joints between copper and copper alloys and hardfacings on mild and low-alloy steels as well as cast iron.

### Physical properties (typical values)

El.conductivity at 20°C [S · m/mm <sup>2</sup> ]	Thermal conductivity at 20°C [W/(m · K)]	Linear thermal expansions coefficient (20-300°C) [1/K]
8	65	17 · 10 <sup>-6</sup>

### Mechanical properties of all-weld-metal (typical values)

Gas shield Thermal treatment		Welding argon untreated	
Test temperature	[°C]	+20°C	
0,2 %-yield strength R <sub>p0,2</sub>	[N/mm <sup>2</sup> ]	200	
Tensile strength R <sub>m</sub>	[N/mm <sup>2</sup> ]	430	
Elongation A <sub>5</sub>	[%]	40	
Impact strength A <sub>v</sub>	[J]	100	
Brinell-hardness HB 10/1000		140	

### Average chemical composition of all-weld-metal (%)

Cu	Al
Basis	8

### Application notes

Preheating is only necessary on large work pieces. Pulsed arc welding is recommended for the first deposit when hardfacing on iron materials.

### Gas types applicable

Welding-argon

### Diameters available, welding current, unit weights

Diameter [mm]	Length [mm]	kgs per box [kg]
2,0	1000	10
3,0	1000	10

### MIG welding wire

Diameter            0,8mm            1,0mm            1,2mm            1,6mm

**TIG -**

**MIG = +**