

## MT-CuSi 3

## 2.1461

Copper silicon alloy MIG/TIG welding wire.

### Standard designation

EN ISO 24373	S Cu 6560
Material No.	2.1461
AWS/ASME SFA-5.7	ER CuSi - A

### Main fields of application

Copper, low-alloy copper and copper zinc alloys; build-up welds on mild and low-alloy steels and 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)]	Lineare thermal Expansions coefficient (+20°C-+300°C) [1/K]
3 - 4	35	18 · 10 <sup>-6</sup>

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

Welding process Gas shield Thermal treatment Test temperature		TIG I1 untreated +20°C	MIG I1 untreated +20°C
	[°C]		
0,2 %-yield strength R <sub>p0,2</sub>	MPa	120	120
Tensile strength R <sub>m</sub>	MPa	350	350
Elongation A <sub>5</sub>	[%]	40	40
Impact strength A <sub>v</sub>	[J]	60	60
Brinell-hardness HB 10/1000		80	80

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

Cu	Si	Mn	Sn	Fe	Zn
Bal.	3	1	0,1	0,07	0,1

### Gas types applicable TIG

I 1

### Gas types applicable MIG

I 1

### Diameters available, welding current, unit weights

Diameter [mm]	Length [mm]	kgs per box [kg]
1,60	1000	10,0
2,00	1000	10,0
2,40	1000	10,0
3,00	1000	10,0
4,00	1000	10,0

### MIG welding wire

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

### Welding positions MIG acc.to EN ISO 6947

PA, PB, PF

### Welding positions TIG acc.to EN ISO 6947

PA, PB, PC, PE, PF

### Current/Polarity TIG

= -

### Current/Polarity MIG

= +