

## AlCu6 Laser welding wire

**CATEGORY** Laser welding wires

**TYPE** Aluminum-Copper alloy for welding high strength aluminum alloys.

**APPLICATIONS** Joining high strength aluminum alloys of the same kind as found in Aircraft industry.

**PROPERTIES** Excelent corrosion resistance combined with high strength due to the addition of copper. The filler metal shows remarkable bonding properties and fluidity during welding.

**CLASSIFICATION** AWS A 4-10: ER 2319  
EN ISO 18273: S AL 2319

**SUITABLE FOR** AL 2219, AL 2014; AlCu-cast-alloys, not suitable for 5xxx -AL alloys

**APPROVALS** CE approved

**WELDING POSITIONS:**



### WELD METAL ANALYSIS % (TYPICAL)

Al	Cu	Mn	Zr	Ti	V	Si	Zn
Rem	6.2	0.3	0.14	0.17	0.1	0.15	0.2

### MECHANICAL PROPERTIES

Heat Treatment	R <sub>p0,2</sub> (N/mm <sup>2</sup> )	R <sub>m</sub> (N/mm <sup>2</sup> )	A <sub>5</sub> (%)	Impact Energy (J) ISO-V 20°C	Hardness HRc
As welded					

### DELIVERY DATA

Diameter	Rods	Spool	Strength	elongation	stock items	
D (mm)	length (mm)	types	N/mm <sup>2</sup>	AL100	rods	spools
0.20	333 / 1000	K80 / K125 / K250 / SH253 / MA125				
0.25	333 / 1000	K80 / K125 / K250 / SH253 / MA125				
0.30	333 / 1000	K80 / K125 / K250 / SH253 / MA125			x	x
0.40	333 / 1000	K80 / K125 / K250 / SH253 / MA125			x	x
0.50	333 / 1000	K80 / K125 / K250 / SH253 / MA125			x	x
0.60	333 / 1000	K80 / K125 / K250 / SH253 / MA125			x	x

**REDRYING TEMPERATURE** not required

**GAS ACC. EN ISO 14175:** I1