

OK Autrod 19.40

A continuous solid copper wire for welding of aluminium bronzes of the same type and over lay welding of un- and low alloyed steels. OK Autrod 19.40 is alloyed with aluminium and is recognised for high strength, good wear resistance and very good corrosion resistance against sea water. The alloy is also commonly used in the automotive industry for Mig brazing of galvanised steel in car body production.

Specifications

Classifications	SFA/AWS A5.7 : ER CuAl-A1 EN ISO 24373 : S Cu 6100 (CuAl7)
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Alloy Type	Alloyed copper (Cu + 8 % Al)
Shielding Gas	I1, I2, I3, M13 (EN439)

Tensile Properties

Testing Condition	Yield Strength	Tensile Strength	Elongation
As Welded	175 MPa	420 MPa	40 %

Typical Wire Composition %

Mn	Si	Al	Pb	Zn	Fe
0.3	0.1	7	0.01	0.1	0.4

Typical Weld Metal Analysis %

Mn	Si	Al	Pb	Zn	Fe
0.2	0.05	8	0.003	0.05	0.1

Welding Parameters

Amps	Wire Diameter	Volts	Wire Feed Speed
60-165 A	0.8 mm	13-17.5 V	4.0-13.0 mm/min
80-210 A	1.0 mm	12.5-18 V	4.0-12.0 mm/min
150-320 A	1.2 mm	16-29 V	5.0-11.5 mm/min
	1.6 mm		