



Product Data Sheet

G 'Gas-shielded metal-arc welding'

OK Autrod 19.40

Prepared by MALI	Qualified by Tero Tolonen	Approved by Michael Spieß	Reg no EN006214	Cancelling EN004292	Reg date 2013-09-13	Page 1 (2)
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REASON FOR ISSUE

Update of classification and chemical composition

GENERAL

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.

Shielding Gas: I1, I2, I3, M13 (EN439)

Alloy Type: Alloyed copper (Cu + 8 % Al)

CLASSIFICATIONS Wire Electrode

SFA/AWS A5.7 ERCuAl-A1
EN ISO 24373 CuAl7

APPROVALS

Not applicable

CHEMICAL COMPOSITION

	All Weld Metal (%)		Wire/Strip (%)	
	Nom	Min	Max	
Si	0.05		0.20	
Mn	0.2		0.5	
Ni	0.3			
Cu				
Al	8	6.0	8.5	
Pb	0.003		0.02	
Zn	0.05		0.2	
Fe	0.1		0.5	
Ni+Co			0.8	
Others tot			0.4	
		Comments: Cu balance		

MECHANICAL PROPERTIES OF WELD METAL

Properties	All Weld Metal	
	As welded	Typ
Rp0.2 (MPa)	175	
Rm (MPa)	420	
A4-A5 (%)	40	

Comments:

Hardness: Typical 100 HB



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ECONOMICS & CURRENT DATA

Dimension (mm) Ø	Current (A)		W Nom	η Nom	H		Feed			U Max
	Min	Max			Min	Max	Min	Max	Min	
0.8	60	165	15				4.0	13.0	13	17.5
1.0	80	210	15				4.0	12.0	12.5	18
1.2	150	320	15				5.0	11.5	16	29
1.6										

W = Gas consumption (l / min)

η = Recovery, g weld metal / 100g wire (%)

H = Deposit rate (kg weld metal / hour arc time)

Feed = Feeding rate (m/min)

U = Arc voltage (V)