

Product Data Sheet

OK Autrod 16.95

G 'Gas-shielded metal-arc welding'

Signed by	Approved by	Reg no	Cancelling	Reg date	Page
Mats Linde	Mats Öhman/Barbro Karlström	EN002348	EN001130	2004-07-15	1 (2)

REASON FOR ISSUE

Chemical composition modified.

GENERAL

A continous solid corrosion resisting chromium-nickel-manganese wire for welding of austenitic stainless alloys of 18% Cr, 8% Ni, 7% Mn types.

OK Autrod 16.95 has a general corrosion resistance similar to that of the corresponding parent metal. The higher silicon content improves the welding properties, such as wetting. When used for joining dissimilar materials the corrosion resistance is of secondary importance. The alloy is used in a wide range of applications across the industry such as joining of austenitic, manganese, work hardenable steels as well as armourplate and heat resistant steels.

Shielding Gas: M12,	M13 (EN439)	Alloy Typ	Alloy Type: Austenitic (18 % Cr - 8 % Ni - 7 % Mn)				
CLASSIFICATIONS Wire Electrode		APPROVALS					
EN 12072 Werkstoffnummer	G 18 8 Mn ~1.4370	Ü DB UDT VdTÜV	43.039/1 43.039.10 DIN 8556 05420				

CHEMICAL COMPOSITION

All Weld

	Metal (%)		•
	Nom	Min	Max
C	0.1		0.20
Si	1		1.2
Mn	6.5	5.0	8.0
Р	0.010		0.030
S	0.020		0.020
Cr	18.5	17.0	20.0
Ni	8.5	7.0	10.0
Мо	0.1		0.3
Cu	0.1		0.3
N			0.08
Others total			0.50

Wire/Strip (%)

MECHANICAL PROPERTIES OF WELD METAL

All Weld Metal

	As welded		
Properties	Min	Тур	
Rp0.2 (MPa) Rm (MPa) A4-A5 (%)	350 500 25	450 640 41	
Charpy V at 20°C (J)		130	



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ECONOMICS & CURRENT DATA

Dimension (mm)	Current (A)		wη		Н		Feed		U	
Ø	Min	Max	Nom	Nom	Min	Max	Min	Max	Min	Max
0.8	55	160	12		1.0	4.1	4.0	17.0	15	24
0.9	65	220	12		1.1	5.4	3.5	18.0	15	28
1.0	80	240	15		1.5	6.0	4.0	16.0	15	28
1.2	100	300	18		1.6	7.5	3.0	14.0	15	29
1.6	230	375	22		5.2	8.6	5.5	9.0	23	31

W = Gas consumption (I / 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)