

OK Autrod 318Si

A continuous, solid, corrosion-resistant, stabilised, chromium-nickel-molybdenum wire for welding Cr-Ni-Mo and Cr-Ni stabailised or non-stabilised steels. OK Autrod 318Si has good general corrosion resistance. The alloy is stabilised with niobium to improve resistance to the intergranular corrosion of the weld metal. The higher silicon content improves the welding properties such as wetting. Due to stabilisation by niobium, this alloy is recommended for service temperatures up to 400°C.

Classifications Wire Electrode:	EN ISO 14343-A:G 19 12 3 Nb Si, Werkstoffnummer :~1.4576	
Approvals:	CE EN 13479, NAKS/HAKC 1.2MM, DB 43.039.14, VdTÜV 09735	

Approvals are based on factory location. Please contact ESAB for more information.

Alloy Type: Austenitic (with approx. 7 % ferrite) 19% Cr - 12% Ni - 3 % Mo - Nb	
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Typical Tensile Properties						
Condition	Yield Strength	ength Tensile Strength Elongation				
As welded	460 MPa	615 MPa	35 %			
Tested at 400\00B0C.						
As welded	360 MPa	480 MPa	35 %			

Typical Charpy V-Notch Properties					
Condition	Testing Temperature	Impact Value			
As welded	20 °C	100 J			
As welded	-60 °C	70 J			

Typical Wire Composition %								
С	Mn	Si	Ni	Cr	Мо	Cu	Nb	Ferrite FN
0.05	1.7	0.8	11.9	18.8	2.60	0.10	0.50	6

Deposition Data						
Diameter	Current	Voltage	Wire Feed Speed	Deposition Rate		
0.8 mm	55-160 A	15-24 V	4.0-17.0 m/min	1.0-4.1 kg/h		
1.0 mm	80-240 A	15-28 V	4.0-16.0 m/min	1.5-6.0 kg/h		
1.2 mm	100-300 A	15-29 V	3.0-14.0 m/min	1.6-7.5 kg/h		

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