

OK Autrod 316LSi

A continuous, solid, corrosion-resistant, chromium-nickel-molybdenum wire for welding austenitic stainless alloys of the 18% Cr -8% Ni and 18% Cr -10% Ni -3% Mo types. OK Autrod 316LSi has good general corrosion resistance; in particular, the alloy has very good resistance to corrosion in acid and chlorinated environments. The alloy has a low carbon content which makes it particularly recommended when there is a risk of intergranular corrosion. The higher silicon content improves the welding properties such as wetting. The alloy is widely used in the chemical and food processing industries, as well as in shipbuilding and various types of architectural structure.

Classifications Wire Electrode:	SFA/AWS A5.9:ER316LSi, Werkstoffnummer :~1.4430, EN ISO 14343-A:G 19 12 3 L Si		
Approvals:	CE EN 13479, VdTÜV 04268, NAKS/HAKC 1.0MM-1.2MM, CWB ER316LSi,		
	DB 43.039.05, DNV NV 316L (M13)		

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

Alloy Type:	Austenitic (with approx. 8 % ferrite) 19% Cr - 12% Ni - 3% Mo - Low C - High Si
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Typical Tensile Properties					
Condition	Yield Strength	Tensile Strength	Elongation		
As welded	400 MPa	560 MPa	37 %		
Tested at 350\00B0C.					
As welded	340 MPa	440 MPa	26 %		

Typical Charpy V-Notch Properties				
Condition	Testing Temperature	Impact Value		
As welded	20 °C	120 J		
As welded	-60 °C	95 J		
As welded	-110 °C	70 J		
As welded	-196 °C	45 J		

Typical Wire Composition %							
С	Mn	Si	Ni	Cr	Мо	Cu	Ferrite FN
0.01	1.8	0.9	12.2	18.4	2.60	0.12	7

Deposition Data					
Diameter	Current	Voltage	Wire Feed Speed	Deposition Rate	
0.8 mm	55-160 A	12-24 V	4.0-17.0 m/min	1.0-4.1 kg/h	
0.9 mm	65-220 A	15-28 V	3.5-18.0 m/min	1.1-5.4 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	
1.6 mm	230-375 A	23-31 V	5.5-9.0 m/min	5.2-8.6 kg/h	

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