

OK Autrod 316LMn

OK Autrod 316LMn is a corrosion resistant non-magnetic chromium-nickel-molybdenium wire for welding of stabilized and non-stabilized austenitic stainless steels of the same type as well as non magnetic steels. The alloy is corrosion resistant in seawater environment and has very good corrosion resistance to acids, such as nitric acid. Excellent impact properties at low temperatures which makes it suitable for cryogenic applications.

Specifications					
Classifications	EN ISO 14343-A : G 20 16 3 Mn N L SFA/AWS A5.9 : ER316LMn				
Approvals	CE : EN 13479 UKCA : EN 13479				

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

Alloy Туре	Austenitic (7 % Mn - 20 % Cr - 16 % Ni - 3 % Mo)		
Shielding Gas	M12, M13 (EN ISO 14175)		

Typical Tensile Properties						
Condition Yield Strength Tensile Strength Elongation						
As Welded	400 MPa	600 MPa	40 %			

Typical Charpy V-Notch Properties					
Condition	Testing Temperature	Impact Value			
As Welded	-60 °C	J 06			
As Welded	-110 °C	70 J			
As Welded	-196 °C	40 J			

Typical Wire Composition %							
С	Mn	Si	Ni	Cr	Мо	Ν	
0.01	6.9	0.4	15.6	19.9	3.0	0.18	

Typical Weld Metal Analysis %									
C	Mn	Si	S	Р	Ni	Cr	Мо	Cu	Ν
0.02	7	0.3	0.01	0.01	16	20	3	0.05	0.15

Deposition Data						
Diameter	Current	Voltage	Wire Feed Speed	Deposition Rate		
1.0 mm	80-190 A	16-24 V	2.9-8.4 m/min	1.1-3.1 kg/h		
1.2 mm	180-280 A	20-28 V	4.9-8.5 m/min	2.6-4.5 kg/h		