

# OK Autrod 308LSi

A continuous solid corrosion resisting chromium-nickel wire for welding of austenitic chromium nickel alloys of 18% Cr - 8% Ni-type. OK Autrod 308LSi has a good general corrosion resistance. The alloy has a low carbon content making it particularly recommended where 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 for pipes, tubes and boilers.

<b>Classifications Wire Electrode:</b>	EN ISO 14343-A:G 19 9 L Si, SFA/AWS A5.9:ER308LSi, Werkstoffnummer :~1.4316
<b>Approvals:</b>	BV 308L SA BT (M12), CE EN 13479, CWB ER308LSi, DB 43.039.01, DNV-GL VL 308 L (M13), VdTÜV 04267, NAKS/HAKC 1.0MM-1.2MM

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

<b>Alloy Type:</b>	Austenitic (with approx. 8 % ferrite) 19% Cr - 9% Ni - Low C - High Si
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## Typical Tensile Properties

Condition	Yield Strength	Tensile Strength	Elongation
As welded	400 MPa	570 MPa	36 %
<b>Tested at 350\00B0C.</b>			
As welded	370 MPa	490 MPa	25 %

## Typical Charpy V-Notch Properties

Condition	Testing Temperature	Impact Value
As welded	20 °C	110 J
As welded	-60 °C	70 J
As welded	-196 °C	45 J

## Typical Wire Composition %

C	Mn	Si	Ni	Cr	Mo	Cu	Ferrite FN
0.01	1.8	0.9	10.5	19.9	0.15	0.10	9

## Deposition Data

Diameter	Current	Voltage	Wire Feed Speed	Deposition Rate
0.6 mm	-	-	-	-
0.8 mm	55-160 A	15-24 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
1.14 mm	-	-	-	-
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	23-29 V	5.5-9.0 m/min	5.2-8.6 kg/h