

## OK Autrod 309LSi

A continuous solid corrosion resistant chromium-nickel wire for welding of similar steels, wrought and cast steels of 23% Cr-12% Ni types. The alloy is also used for welding of buffer layers on CMn steels and welding of dissimilar joints. When using the wire for buffer layers and dissimilar joints it is necessary to control the dilution of the weld. OK Autrod 309LSi has a good general corrosion resistance. The higher silicon content improves the welding properties, such as wetting.

<b>Classifications Wire Electrode</b>	EN ISO 14343-A : G 23 12 L Si SFA/AWS A5.9 : ER309LSi Werkstoffnummer : ~1.4332
<b>Approvals</b>	CE EN 13479

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

<b>Alloy Type</b>	Austenitic (with approx. 8 % ferrite) 24 % Cr - 13 % Ni - Low C
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### Typical Tensile Properties

Yield Strength	Tensile Strength	Elongation
440 MPa (64 ksi)	600 MPa (87 ksi)	41 %

### Typical Charpy V-Notch Properties

Testing Temperature	Impact Value
20 °C (68 °F)	160 J (118 ft-lb)
-60 °C (-76 °F)	130 J (96 ft-lb)
-110 °C (-166 °F)	90 J (66 ft-lb)

### Typical Wire Composition %

C	Mn	Si	Ni	Cr	Mo	Cu
0.02	1.7	0.9	13.5	23.4	0.15	0.12

### Deposition Data

Diameter	Current	Voltage	Wire Feed Speed	Deposition Rate
0.8 mm (.030 in.)	55-160 A	15-24 V	4.0-17.0 m/min (157.5-669 in./min)	1.0-4.1 kg/h (2.2-9.0 lb/h)
0.9 mm (.035 in.)	65-220 A	15-28 V	3.5-18.0 m/min (138-709 in./min)	1.1-5.4 kg/h (2.4-12.0 lb/h)
1.0 mm (.040 in.)	80-240 A	15-28 V	4.0-16.0 m/min (157.5-630 in./min)	1.5-6.0 kg/h (3.3-13.2 lb/h)
1.14 mm (.045 in.)	-	-	-	-
1.2 mm (.045 in.)	100-300 A	15-29 V	3.0-14.0 m/min (118-551 in./min)	1.6-7.5 kg/h (3.5-16.5 lb/h)
1.6 mm (1/16 in.)	230-375 A	23-31 V	5.5-9.0 m/min (216.5-354 in./min)	5.2-8.6 kg/h (11.5-19.0 lb/h)