

## OK Autrod 309MoL

A continuous solid corrosion resisting wire of "309LMo" type.

OK Autrod 309MoL is used for overlay welding of unalloyed and low alloyed steels and for welding of dissimilar steels such as 316L to unalloyed and low alloyed steels when Mo is essential.

<b>Classifications Wire Electrode</b>	SFA/AWS A5.9 : ER309LMo (mod) EN ISO 14343-A : G 23 12 2 L
<b>Approvals</b>	CE EN 13479 VdTUV 07352

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

<b>Alloy Type</b>	Austenitic (with approx. 8 % ferrite) "309LMo" 22 % Cr - 15 % Ni - 3 % Mo - Low C
<b>Shielding Gas</b>	M12, M13 (EN ISO 14175)

### Typical Tensile Properties

Condition	Yield Strength	Tensile Strength	Elongation
As Welded	400 MPa (58 ksi)	600 MPa (87 ksi)	31 %

### Typical Charpy V-Notch Properties

Testing Temperature	Impact Value
20 °C (68 °F)	110 J (81 ft-lb)
-60 °C (-76 °F)	65 J (58 ft-lb)

### Typical Wire Composition %

C	Mn	Si	Ni	Cr	Mo
0.01	1.5	0.4	14.6	21.4	2.5

### Deposition Data

Diameter	Current	Voltage	Wire Feed Speed	Deposition Rate
0.8 mm (0.030 in.)	50-140 A	16-22 V	3.4-11.0 m/min (134-433 in./min)	0.8-2.7 kg/h (1.8-6.0 lb/h)
1.0 mm (0.040 in.)	80-190 A	16-24 V	2.9-8.4 m/min (114-331 in./min)	1.1-3.1 kg/h (2.4-6.8 lb/h)
1.2 mm (0.047 in.)	180-280 A	20-28 V	4.9-8.5 m/min (193-335 in./min)	2.6-4.5 kg/h (5.7-9.9 lb/h)
1.6 mm (1/16 in.)	230-350 A	24-28 V	3.2-5.5 m/min (126-217 in./min)	3.0-5.2 kg/h (6.6-11. lb/h)