

OK 309L



Acid-rutile coated MMA-electrode giving an overalloyed weld metal. Suitable for welding stainless steel to mild and low alloyed steels. Also suitable for welding of transition layers when surfacing mild steel with stainless steel weld metal.

Classifications	EN ISO 3581-A : E 23 12 L R 3 2 SFA/AWS A5.4 : E309L-16
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Welding Current	AC, DC+
Ferrite Content	FN 12 - 22
Alloy Type	Austenitic CrNi
Coating Type	Acid Rutile

Typical Tensile Properties

Condition	Yield Strength	Tensile Strength	Elongation
ISO			
As Welded	470 MPa	580 MPa	32 %

Typical Charpy V-Notch Properties

Condition	Testing Temperature	Impact Value
ISO		
As Welded	20 °C	50 J
As Welded	-10 °C	40 J

Typical Weld Metal Analysis %

C	Mn	Si	Ni	Cr	N	Ferrite FN
0.03	0.9	0.8	12.4	23.7	0.09	15

Deposition Data

Diameter	Current	Voltage	Efficiency (%)	Number of electrodes/kg weld metal	Fusion time per electrode at 90° I max	Deposition Rate
2.5 x 300.0 mm	45-90 A	28 V	60 %	85	38 sec	1.1 kg/h
3.2 x 350.0 mm	65-120 A	29 V	60 %	45	51 sec	1.6 kg/h
4.0 x 350.0 mm	85-180 A	31 V	60 %	29	51 sec	2.5 kg/h