

OK 63.30

Extra low carbon stainless steel electrode for welding steels of the 18Cr 12Ni 2.8Mo-type. Also suitable for welding of stabilized stainless steels of similar composition, except when the full creep resistance of the base metal is to be met.

Classifications	EN ISO 3581-A : E 19 12 3 L R 1 2 SFA/AWS A5.4 : E316L-17 CSA W48 : E316L-17 Werkstoffnummer : 1.4430
Approvals	ABS : E316L-17 BV : 316L CE : EN 13479 CWB : E316L-17 DB : 30.039.06 DNV-GL : VL 316 L LR : 316L NAKS/HAKC : 2.5-4.0 mm Seproz : UNA 272580 VdTÜV : 00262

Welding Current	DC+, AC
Ferrite Content	FN 3-10
Alloy Type	Austenitic CrNiMo
Coating Type	Acid Rutile

Typical Tensile Properties

Condition	Yield Strength	Tensile Strength	Elongation
ISO			
As Welded	460 MPa	570 MPa	40 %

Typical Charpy V-Notch Properties

Condition	Testing Temperature	Impact Value
ISO		
As Welded	20 °C	60 J
As Welded	-20 °C	55 J
As Welded	-60 °C	43 J

Typical Weld Metal Analysis %

C	Mn	Si	Ni	Cr	Mo	N	Ferrite FN
0.02	0.6	0.8	11.0	18.1	2.6	0.10	6

Deposition Data

Diameter	Current	Voltage	Efficiency (%)	Number of electrodes/kg weld metal	Fusion time per electrode at 90% I max	Deposition Rate
1.6 x 300.0 mm	30-45 A	29 V	56 %	250	37 sec	0.4 kg/h
2.0 x 300.0 mm	45-65 A	29 V	60 %	147	39 sec	0.6 kg/h
2.5 x 300.0 mm	45-90 A	29 V	55 %	96	45 sec	0.9 kg/h
3.2 x 350.0 mm	60-125 A	30 V	55 %	52	57 sec	1.4 kg/h
4.0 x 350.0 mm	70-190 A	32 V	56 %	34	57 sec	2.0 kg/h
5.0 x 350.0 mm	100-280 A	32 V	56 %	21	63 sec	3.0 kg/h