

## **OK 78.16**

OK 78.16 is a CrMo-alloyed electrode for the welding of 0.25C-1Cr-0.3Mo-alloyed quenched and tempered steel grades. The heat treatment requirements for the weld metal are the same as those for the parent plate. The weld metal of OK 78.16 is also suitable for flame hardening. The welding of high tensile strength steel with OK 78.16 should be carried out at a preheating temperature of minimum 200°C.

Classifications	SFA/AWS A5.5 : E9018-G EN ISO 18275-A : E 69 A Z B 42
Approvals	CE : EN 13479 Seproz : UNA 272581

Welding Current DC+	
Alloy Type	Low alloyed (1.15 % Cr ; 0.2 % Mo)
Coating Type	Basic covering

Typical Tensile Properties					
Condition Yield Strength Tensile Strength Elongation					
ISO					
As Welded 800 MPa		900 MPa	17 %		

Typical Charpy V-Notch Properties					
Condition Testing Temperature Impact Value					
ISO					
As Welded	20 °C	80 J			

Typical Weld Metal Analysis %					
С	Mn	Si	Cr	Мо	
0.17	0.76	0.52	1.15	0.2	

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 350.0 mm	75-100 A	20 V	64 %	70.0	58 sec	0.9 kg/h
3.2 x 450.0 mm	105-140 A	21 V	64 %	32.5	78 sec	1.4 kg/h
4.0 x 450.0 mm	145-195 A	22 V	66 %	22.5	83 sec	1.9 kg/h
5.0 x 450.0 mm	190-260 A	23 V	68 %	15.0	86 sec	2.8 kg/h