



OK 13Mn

OK 13Mn is an austenitic manganese steel electrode which work hardens under impact and compressive stresses. It is primarily used for surfacing and building up manganese steel components exposed to severe impact and moderate abrasion. Typical applications include crusher plates and rolls, cones and mantles of rotary crushers etc. The interpass temperature should be kept as low as possible.

Specifications	
Classifications	EN 14700 : E Fe9
Welding Current	AC, DC+
Alloy Type	Austenitic Mn steel
Coating Type	Lime Basic

Tensile_Properties			
Testing Condition	Yield Strength	Tensile Strength	Elongation
ISO			
As Welded	480 MPa	780 MPa	20 %

Charpy Testing			
Testing Condition	Condition Testing Temp		
ISO			
As Welded	-40 °C	35 J	
As Welded	-60 °C	25 J	
As Welded	-20 °C	45 J	
As Welded	20 °C	70 J	

Typical Weld Metal Analysis %			
С	Mn	Si	
1.08	12.2	0.7	

Deposition Data					
Diameter	Amps	Volts	Efficiency (Per)	Fusion time per electrode at 90Per I max	Deposition rate at 90Per
3.2 x 450.0 mm	95-135 A	23 V	60 %	95 sec	1.1 kg/h
4.0 x 450.0 mm	130-180 A	23 V	60 %	109 sec	1.4 kg/h
5.0 x 450.0 mm	170-230 A	25 V	60 %	132 sec	1.8 kg/h