

## 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	

Typical Tensile Properties				
Condition Yield Strength Tensile Strength Elongation				
ISO				
As Welded	480 MPa	780 MPa	20 %	

Typical Charpy V-Notch Properties			
Condition	Testing Temperature	Impact Value	
ISO			
As Welded	-20 °C	45 J	
As Welded	20 °C	70 J	
As Welded	-40 °C	35 J	
As Welded	-60 °C	25 J	

Typical Weld Metal Analysis %			
С	Mn	Si	
1.08	12.2	0.7	

Deposition Data					
Diameter	Current	Voltage	Efficiency (%)	Fusion time per electrode at 90% I max	Deposition Rate
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