

## 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.

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 %				
c	Mn	Si		
1.08	12.2	0.7		

## **Deposition Data** Diameter Efficiency (%) Current Voltage Number of Fusion time per **Deposition Rate** electrodes/kg electrode at 90% I weld metal max 3.2 x 450.0 mm 95-135 A 23 V 60 % 36 95 sec 1.1 kg/h 109 sec 4.0 x 450.0 mm 130-180 A 23 V 60 % 24 1.4 kg/h 5.0 x 450.0 mm 170-230 A 25 V 60 % 15 132 sec 1.8 kg/h