

# **EH 245**

 Standards

 AWS/ASME SFA - 5.13
 EFeMn-A

 EN 14700
 E Fe9

 TS EN 14700
 E Fe9

 DIN 8555
 E 7-UM-200-KP

Covered Electrode for Hardfacing Applications -

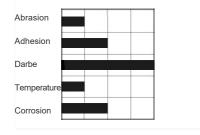
Approvals & Certificates	
GOST	

## **Properties and Applications**

Basic covered, austenitic manganese steel electrode for wear resisting hardfacing deposits on high manganese (12-14%) steels. Weld metal will adopt high hardness by cold-working, it is therefore particularly suited for parts which are subjected mainly to wear caused by heavy impact and shock. During welding, the workpieces should not become too hot and if necessary, be allowed to cool down. When welding large workpieces made of austenitic manganese steel, such as crusher jaw plates, it is advisable to weld them in a water bath. Welding shall be done at low welding currents, with stringer and short bead lengths, to avoid the workpiece cool down. So, high welding currents and wide-weave beads must be avoided. When building up various layers, it is good practice depositing a buffer layer with EI 307 weld metal. When making joint welds on austenitic manganese steel, it is preferable to use El 307B electrodes. Suitable for hardfacing and repair welding of wear resisting parts made of austenitic manganese steel, such as crusher jaw plates, crusher cones, rolls, pulverizing hammers, beating arms and others. Preferably used with DC, electrode in positive (+) pole and also possible to use with AC.



## Dayanım Gösterdiği Aşınma Tipleri ve Mikroyapısı



3.25x350

100-130





Typical Chemical Values of Weld Metal						
Type of Analysis	С	Mn	Ni	Fe		
Weld Deposit	0.60	14.00	2.70	82.70		

# Typical Mechanical Values of Weld Metal Test Condition Hardness (HB) Wear Index As welded 200 66.17 After Cold Working 450

### **Application Information Welding Positions** Polarity: PB PA Welding Parameters & Efficiency Weld Deposit(Kg)/1Kg Consumed Number of Electrodes/1Kg Weld Weld Metal Deposition Rate Diameter x Length Current (mm) (A) Electrode Deposit (Kg/h) 2.50x350 70-90 0,45 99 0,47

50

0,79

0.55



4.00x450	140-180	0,58	24	1,28
5.00x450	200-250	0,54	16	1,79

Packaging Information							
Product Code	Diameter x Length (mm)	Quantity per Box	Box Gross Weight (kg)	Boxes per Outer Box	Outer Box Gross Weight (kg)	Packaging Type	
18000HEEM2	2.50x350	226 pcs	5.21	3	15.80	Plastic Box	
18000HREM2	2.50x350	226 pcs	5.07	3	15.40	Cardboard Box	
18000NEEM2	3.25x350	139 pcs	5.21	3	15.80	Plastic Box	
18000NREM2	3.25x350	139 pcs	5.07	3	15.40	Cardboard Box	
18000SEEM2	4.00x450	93 pcs	6.74	3	20.40	Plastic Box	
18000SSEM2	4.00x450	93 pcs	6.58	3	19.90	Cardboard Box	
18000VEEM2	5.00x450	60 pcs	6.74	3	20.40	Plastic Box	
18000VSEM2	5.00x450	60 pcs	6.58	3	19.90	Cardboard Box	

# Storage & Re-Drying Information

It can be dried maximum 5 times. It should be stored in a dry room (relative humidity < 50%, room temperature > 20°C) on wooden pallets. It has to be dried at  $350^{\circ}$ C for 2 hours.