

EM 175

Basic Coated Electrode - Fine Grained-High Strength Steels

Standards	
AWS/ASME SFA - 5.5	E10018-G H4
EN ISO 18275 - A	E 69 4 Mn2NiCrMo B 42 H5
TS EN ISO 18275 - A	E 69 4 Mn2NiCrMo B 42 H5

Properties	and.	Annl	lication	S

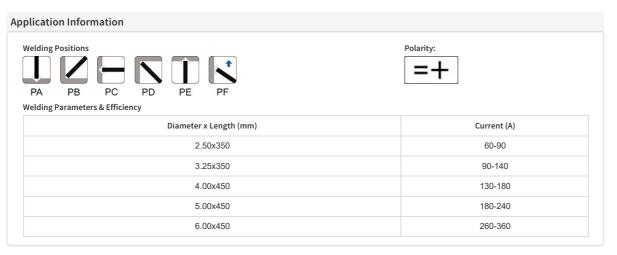
Heavy coated basic type electrode for welding fine grained structural steels which have yield strength up to 690N/mm². Suitable for welding high strength steels used in fabrication of cranes, earthmoving and similar heavy construction equipments. Weld deposit is of extremely high metallurgical purity and very low hydrogen content. Electrode features a stable and concentrated arc. Especially 2,50 mm and 3,25 mm diameter well suited for easy positional welding. Welds are of X-ray quality. Producing tough and crack-free welded joints. If normalizing is required after welding, EM 176 should be used.

Approvals & Certificate	es
GOST	
Materials	
Width	DIN
S620QL	TStE 620 V
S620Q	StE620

Typical Chemical Values of Weld Metal							
Type of Analysis	С	Si	Mn	CR	Ni	Мо	
Weld Deposit	0.05	0.30	1.60	0.45	2.30	0.40	

Typical Mechanical Values of Weld Metal

Test Condition	Yield Strength (N/mm²)	Tensile Strength (N/mm²)	Elongation A5 (%)	Charpy V-Notch Properties (J)
As welded	730	820	19	-40°C → 85



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
12009HREM2	2.50x350	200 pcs	4.57	3	13.90	Cardboard Box
12009NKEM2	3.25x350	74 pcs	2.54	6	15.50	VAC Box
12009NREM2	3.25x350	134 pcs	4.57	3	13.90	Cardboard Box
12009SSEM2	4.00x450	97 pcs	6.58	3	19.90	Cardboard Box
12009VSEM2	5.00x450	64 pcs	6.58	3	19.90	Cardboard Box
12009XSEM2	6.00x450	47 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°C for 2 hours.