



WB12018-M MMA WELDING ELECTRODE

Classification	AWS A5.5: E12018-M BS EN ISO 18275: E79 4 Mn2Ni1CrMo B 4 2 H5										
Product Description	Fully positional, basic coated, low hydrogen electrode. Exceptional mechanical properties. Has a nominal recovery of ~110%. Excellent de-slag, re-strike and general welder appeal.										
Application	Used for the welding of HY80, HY100 and other high yield alloy steels where the weld metal properties must match those of the parent material after normalising followed by quenching and tempering.										
All-Weld Metal Composition (Wt. %)	C	Mn	Si	S	P	Cr	Ni	Mo	Cu	V	
	min. 0.03 max. 0.06	1.30 2.00	0.20 0.40	- 0.020	- 0.025	0.40 0.80	2.00 2.50	0.30 0.55	- 0.050	- 0.050	
Typical All-Weld Metal Mechanical Properties	Ultimate Tensile Strength					N/mm ²		830 min.			
	Yield Stress/0.2% Proof Stress					N/mm ²		745-830			
	Elongation on 5D					%		18			
	Impact Energy CV @ -51°C					Joules		27			
	As welded										

Electrode Dia (mm)	1.6mm	2.0mm	2.5mm	3.2mm	4.0mm	5.0mm	6.0mm
Electrode Length (mm)	-	-	350	450	450	450	450
Current Range (Amps)	min.	-	70	90	130	160	230
	max.	-	90	140	180	220	280
Packaging Information							
Kg Per Packet	-	-	5	5	5	5	5
Approx. Pieces Per Kg	-	-	44	21	14	10	7
Storage and Re-baking	<p>Storage It is recommended that the WB range of electrodes are stored in a dry heated store at a minimum temperature of 18°C, and a maximum relative humidity of 60%. To avoid damage to the coatings no more than 4 cartons should be stacked on top of another.</p> <p>Re-drying Re-dry @ 350°C for 2 hours and then transfer to holding oven and hold @ 100 - 200°C, or 50-100°C in heated quiver.</p>						

Current Conditions AC (OCV70) DC+ and Welding Positions

