

## WB12018-G MMA WELDING ELECTRODE

Classification		AWS A5	5 <b>.5:</b> E120	18-G	BS EN	ISO 1827	<b>5</b> : E79 4	Mn3.5N	li1CrMo	B 4 2 H	5	
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 ap	opeal.					0			
		Used for	the weld	ing of H	Y80, HY10	0 and oth	er high y	ield allo	y steels	where th	ne weld	
Application	metal properties must match those of the parent material after normalising followed											
				by quenching and tempering.								
		For the majority of materials to be welded with WB12018-G, minimum preheats						eheats				
		between 100°C and 200°C with maximum interpass of 250°C is required to avoid										
		possibility of hydrogen induced "cold" cracking. Note that interpass temperatures							ratures			
	above ~200°C may yield lower strength and toughness values.											
All-Weld Metal Composition						_						
(Weight %)		C	Mn	Si	S	Р	Cr	Ni	Mo	Cu	V	
	min.	0.04	0.80	0.20	-	-	0.50	3.40	0.35	-	-	
	max.	0.07	1.50	0.60	0.020	0.025	1.00	4.40	0.75	0.050	0.050	
Tursian All Wold Matel												
Noobanical Properties		Vield Streeg (0.2% Preef Streeg				N/IIIII <sup>-</sup> 930 064 919						
mechanical properties		Flongation on 5D				0/ *20 **22 ***2 <i>1</i>						
		Elongation on 5D			/0 Iouloc	/0 20 22 24						
		* As welded				JUUIES		12 13		(-20-0)		
		**Stress-relieved @ 620°C/1 Hr										
		***Stress-relieved @ 620°C/8 Hr										
		01000	, 10.0000		0,011							

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	min.	-	-	70	90	130	160	230
(Amps)	max.	-	-	90	140	180	220	280
Packaging Information (Available in Vac Pacs)								
Kg Per Packet Approx. Pieces Per Kg		-	-	5 44	5 21	5 14	5 10	5 7
Storage Storage   It is recommended that the WB range of electrodes are stored in a dry heated store a 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 staked on top of another.   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.							ted store at . To avoid f another. 100 -	

## Current Conditions AC (OCV70) DC+ and Welding Positions









