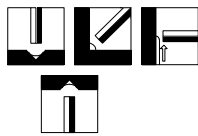


<b>RD-718A</b>	<b>LOW HYDROGEN - IRON POWDER ELECTRODE FOR WELDING CREEP RESISTING Mo-CONTAINING FERRITIC STEELS OPERATING UP TO 450°C</b>				<b>DATA SHEET NO. 46</b>		
SPECIFICATION	AWS A5.5		BS EN ISO 2560B				
CLASSIFICATION	E7018-A1		E4918-1M3				
PRODUCT DESCRIPTION	<p>The design emphasis of the chemically basic flux is engineered to ensure the optimum weld metal properties demanded by the specification are fully met.</p> <p>The basic flux containing the appropriate alloying elements with a controlled balanced addition of iron powder, is extruded onto a high purity ferritic core wire with a blend of silicates that ensures both coating strength and a coating resistant to subsequent moisture absorption.</p>						
WELDING FEATURES OF THE ELECTRODE	<p>The chemical nature of the flux together with a significant proportion of iron powder ensures maximum <del>deposition efficiency</del> without detracting from its ability to be used in all positions except vertical down.</p> <p>Overall the arc is very stable, slag detachability is good and metal recovery is some 115% with respect to the core wire.</p>						
APPLICATIONS AND MATERIALS TO BE WELDED	<p>Nominal 0.5Mo content improves elevated temperature performance of weld metal over C:Mn types operating at 450°C.</p> <p>Materials to be welded include:</p> <p>ASTM A335-P1 A209 and A250-TI BS3059-243-3606-243-245 2U Forged ASTM A336-F1 A204 A, B and C. Cast ASTM A217-WC1 A352-LC1</p>						<p align="center">PRE-HEAT 50 – 250°C DEPENDING ON THICKNESS AND RESTRAINT</p>
WELD METAL ANALYSIS COMPOSITION % BY Wt.		C	Mn	Si	S	P	Mo Fe
	MIN	-	-	-	-	-	0.40
	MAX	0.12	0.9	0.8	0.03	0.03	0.65
	TYPICAL	0.09	0.8	0.4	0.01	0.01	0.50 Bal.
ALL WELD METAL PROPERTIES	<u>PROPERTY</u>	<u>UNITS</u>	<u>MINIMUM</u>	<u>TYPICAL</u>	<u>OTHERS</u>		
	Tensile strength	N/mm <sup>2</sup>	490	550	PROPERTIES MAINTAINED AFTER PWHT AT 620 °C		
	0.2% Proof stress	N/mm <sup>2</sup>	390	480			
	Elongation on 4d	%	22	30			
	Reduction of Area (RA)	%	-	70			
WELDING AMPERAGE AC or DC+	Ø (mm)	2.6	3.2	4.0	5.0		
	MIN	60	90	140	180		
	MAX	100	150	190	200		
OTHER DATA	Electrodes that have become damp should be re-dried at 150°C for 1 hour.						
RELATED PRODUCTS	Please contact our Technical Department for detail.						