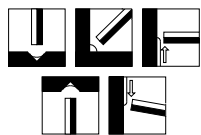


<b>RD-168</b>	<b>FLUX COATED ELECTRODE FOR STRUCTURAL STEELS THAT OFFERS SIGNIFICANT ADVANTAGES WHEN THICKER MILD-STEEL SECTIONS ARE INVOLVED</b>				<b>DATA SHEET NO. <span style="font-size: 2em;">9A</span></b>						
	SPECIFICATION	AWS A5.1	BS EN ISO 2560-B	JIS Z 3211							
CLASSIFICATION	E6013	E4313	D4313								
PRODUCT DESCRIPTION	A balanced rutile, iron powder, and cellulose flux formulation that contains the necessary alloying elements that enables increased metal recovery to be balanced with a quick freezing slag. The flux is extruded onto a mild steel core wire with a blend of silicates that ensures coating strength and stability.										
WELDING FEATURES OF THE ELECTRODE	The arc is stable and smooth both in AC and DC. Initial arc strike and re-strike are instant. Slag is easy to removed and the weld is smooth and evenly rippled. As metal recovery is some 120% with respect to core wire weight, welding efficiency is increased.										
APPLICATIONS AND MATERIALS TO BE WELDED	All positional welding but used to best advantage on thicker section welding of the following and related steel specifications : Mild and medium carbon-manganese steels up to 15 mm thick with a UTS of 500 N/mm <sup>2</sup> max. Typical grades : BS 1449 plate and sheet, BS 4360 grades 43A and 43C, Lloyds A & D ship steel BS 4360 grade 50B Lloyds grades AH and DH, BS 3059 and BS 3601 grade 320-410 API 5L A-B and X42.										
WELD METAL ANALYSIS COMPOSITION % BY Wt.		C	Mn	Si	S	P	Cr	Ni	Mo	V	Fe
	MIN	-	-	-	-	-	-	-	-	-	-
	MAX	0.2	1.2	1.0	-	-	0.2	0.3	0.3	0.08	-
	TYPICAL	0.05	0.5	0.15	0.01	0.01	0.02	0.03	0.0 1	0.01	Bal.
WELD METAL PROPERTIES (ALL WELD METAL)	<u>PROPERTY</u>	<u>UNITS</u>	<u>MINIMUM</u>	<u>TYPICAL</u>	<u>OTHERS</u>						
	Tensile strength	N/mm <sup>2</sup>	430	480							
	0.2% Proof stress	N/mm <sup>2</sup>	330	400							
	Elongation on 4d	%	17	30							
	Impact energy 0 °C	J	-	100							
Impact energy -20 °C	J	-	80								
WELDING AMPERAGE AC or DC	Ø (mm)	3.2	4.0	5.0							
	MIN	110	160	190							
	MAX	160	200	250							
OTHER DATA	Electrodes that have become damp should be re-dried at 110°C for 1 hour										