

MANUFACTURERS OF A DIVERSE RANGE OF ADVANCED WELDING CONSUMABLES

SECTION

3

WI-0304 DS8 RD-460 Rev. 1, Date 02.03.2009

RD-460	A VERSATILE RUTILE MEDIUM CELLULOSE-PLUS CONTENT MILD STEEL ELECTRODE FOR ALL POSITIONAL WELDING BUT PARTICULARLY ADVANTAGEOUS FOR FILLET WELDING											EET
SPECIFICATION	AWS A5.1				BS EN ISO 2560-B				В	JIS Z 3211		
CLASSIFICATION	E6013				E4313					D4313		
PRODUCT DESCRIPTION	The design emphasis of the flux is engineered to produce a fluid but quick freezing slag so facilitating all positional welding. The balanced rutile, cellulosic flux containing both alloying and deoxidizing elements is extruded on to a mild steel wire with a blend of silicates that ensures coating strength and stability.											
WELDING FEATURES OF THE ELECTRODE	The electrode welds with a smooth stable arc on both AC and DC. Spatter is minimal. Weld seams are smooth, bright and evenly rippled. Initial arc strike and re-strike are instant. For flat and vertical down welding use amperages towards the top end and for vertical up and overhead towards the bottom of range. Slag detachability is excellent and metal recovery is some 98% with respect to weight of core wire.											
APPLICATIONS AND MATERIALS TO BE WELDED	All positional welding but used to particular advantage for fillet welding of the following and related steel specifications: Mild and medium carbon-manganese steels up to 15mm thick with a UTS of 500N/mm ² 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.	MIN	C -	Mn -	Si -		S -	P -	Cr -	Ni -	Mo -	V	Fe
	МАХ	0.2	1.2	1.0		-	-	0.2	0.3	0.3	0.08	
	TYPICAL	0.09	0.5	0.35	(0.02	0.02	0.06	0.04	0.01	0.01	Bal.
WELD METAL PROPERTIES (ALL WELD METAL)	PROPERTY Tensile strength 0.2% Proof stress Elongation on 4d Reduction of Area (RA) Impact energy 0°C		UNIT: N/mm N/mm % % J	<u>S</u> 1 ²	<u>11M</u>	<u>NIMUM</u> 430 330 17 - -		<u>(PICAL</u> 530 440 29 65 72		OTHER	<u>8</u>	
WELDING AMPERAGE AC or DC	Ø (mm)	2.0		2.6		3.2 4		5.0				
	MIN	20		60		80	120)	160] 占		
	MAX	50		110		140	190	D	230			
OTHER DATA	Electrodes	s that ha	ve be	ecome d	lam	ıp sh	ould be	re-dr	ied at 11	0°C for	1 hour.	
APPROVED BY	LR; ABS; NK; DNV; GL; BKI – Grade 2											