

## WB4545E MMA WELDING ELECTRODE

Classifications	AWS A5	<b>5.4</b> : E220	)9-17	BS EN	I ISO 358 <sup>-</sup>	<b>1-A</b> : E22	2 9 3 N L	.R		
Product Description	All positional, semi-basic coated, duplex stainless steel electrode, Excellent welding characteristics.									
Applications	pipeworl welding Gr. F51. WB4545 excellen	This electrode finds use in the fabrication and repair of offshore installations and pipework by virtue of its high strength and corrosion resistance, can be used for welding SAF2205, DINI.4662, Avesta 223, Sandvik 223, UNS1803 and ASTM A182 Gr. F51.  WB4545E is extensively used for the repair of "standard" duplex castings and yields excellent mechanical properties in the as welded condition.  Duplex structure of ~60/40 austenite/ferrite gives a pitting resistance equivalent of ~38.								
All-Weld Metal Composition	0		0:	0			0	A II		N.
(Wt. %) min. max.	0.01 0.03	Mn 0.5 1.2	Si 0.50 0.90	S - 0.020	P - 0.025	Mo 2.5 3.5	Cr 21.5 23.5	Ni 9.0 10.5	Cu - 0.20	N 0.08 2.0
Typical All-Weld Metal Mechanical Properties	Ultimate Tensile Strength Yield Stress/0.2% Proof Stress Elongation on 5D Impact Energy CV @ -46°C As welded, **PWHT			N/mm² N/mm² % Joules	775 **791 560 **590 36 **36 64 **70 (@-50°C)					

Electrode Dia. (mm)		1.6mm	2.0mm	2.5mm	3.2mm	4.0mm	5.0mm	6.0mm
Electrode Length (mm)		-	-	350	350	350	350	-
0 15	min.	-	-	60	80	100	130	-
Current Range (Amps)	max.	-	-	90	120	150	210	-
Packaging Information								
Kg Per Packet Approx. Pieces Per Kg		-	-	5 50	5 30	5 19	5 12	-
Storage and Re-baking  It is recommended that the WB range of electrodes are stored in a dry heated store 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							. To avoid	
		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.						

## Current Conditions AC OCV70 DC +/- and Welding Positions











