

## MANUFACTURERS OF A DIVERSE RANGE OF ADVANCED WELDING CONSUMABLES

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HV-900	LIME RUTILE HARDFACING ELECTRODE DEPOSITING WELD METAL HIGH IN CHROME CARBIDE PROVIDING EXCELLENT RESISTANCE TO ABRASION						data sheet NO. <b>119</b>	
SPECIFICATION								
CLASSIFICATION				-				
PRODUCT DESCRIPTION	The design emphasis of the flux is designed to ensure a slag solidification range that allows the chrome carbide particles to be evenly distributed within the austenitic alloy matric, so ensuring complete uniformity of hardness. The balanced lime rutile flux contains the appropriate alloying elements and is bound with a blend of silicates that ensures both coating strength and resistance to moisture absorption.							
WELDING FEATURES OF THE ELECTRODE	The electrode welds with a smooth stable arc and easily strikes and re-strikes.Weld appearance is bright, almost of and slag detachability is excellent.bolished appearance, smoothly contoured UNCONTROLLEDThe metal recovery is some 170%with respect to core wire with respect to core wireweights, thus reducing welding time. The weld deposits are non-machinable.							
APPLICATIONS AND MATERIALS TO BE WELDED	Suitable for surfacing a wide range of steels including 13Mn types. Because thermal contractional stresses will cause stress relieving cross-cracking, build- ups should be limited to 3 layers, preferably two when restraint is high. The deposit has excellent resistance to abrasion against minerals, sand and sludges which leads to its extensive use in the earth moving, cement, dredging and steel industries. For build-ups on carbon and low alloy steels or 13Mn steel, NS-307 should be used as a buffer layer.							
WELD METAL ANALYSIS COMPOSITION % BY Wt.	С	Mn	Si	Cr	Мо	Fe	;	
	Min. 4.0	-	-	35	-			
	Max. 5.0	1.5	1.0	45	1.0			
	Typical 4.3	0.8	0.7	37	0.4	Ba	l.	
WELD METAL HARDNESS (ALL WELD METAL)	AS WELDED (150°C PRE-HEAT & INTE	RPASS)	HRC		HV		stance than martensitic alloys, HV-600B, which have equivalent all hardness, but lower micro-	
	1 <sup>st</sup> Layer		48 – 52	46	60 – 550	HV. These		
	2 <sup>nd</sup> Layer		54 – 58	5	80 – 660	eg : HV-		
	3 <sup>rd</sup> Layer		56 – 60	6	20 – 700	overall hardnes		
	Actual hardness will be affected on base material composition, number of layers, heat input and welding conditions							
WELDING AMPERAGE AC or DC+	Øxlength		2 x 350	2	4.0 x 400			
	Min.		110		150			
	Max.		160		220			
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							