

MANUFACTURERS OF A DIVERSE RANGE OF ADVANCED WELDING CONSUMABLES

WI-0304 DS60 NSN-308 Rev. 3, Date 20.10.2018

NSN-308	FOR WELDING AUSTENITIC STAINLESS STEELS CONTAINING A NOMINAL 19Cr and 10Ni							DATA SHEET NO. 60		
SPECIFICATION	A		EN ISO 3581-A				JIS Z 3221			
CLASSIFICATION	E		E 19 9 R				D308-16			
PRODUCT DESCRIPTION	A metallurgically advanced rutile based flux formulated with balanced additions of chemically basic, amphoteric and acid minerals, together with small alloy additions to compensate for arc losses. The flux is concentrically extruded onto a fully alloyed core wire and bound by a blend of silicates that assures both coating strength and resistance to subsequent moisture absorption.									
WELDING FEATURES OF THE ELECTRODE	This unique flux formulation ensures excellent arc stability, ease of initial arc strike and re-strike minimal spatter on AC and virtually none on DC+. The resultant weld seams are smooth, evenly rippled and free from undercut while slag detachability is excellent. Metal recovery is some 103% with respect to core wire weight.									
APPLICATIONS AND MATERIALS TO BE WELDED	Applications for the electrode are to be found in the Chemical, Petro-Chemical and Cryogenic Processing and Storage Industries as well as the Food, Brewery and Pharmaceutical Industries using the following materials: ASTM 304 CF3 CF8 UNS S30403 S30400 S30453 <u>Plus</u> ASTM 301, 302 and 303									
WELD METAL ANALYSIS COMPOSITION % BY Wt.	-	C Mn - 0.5 0.08 2.5 0.05 1.3	Si - 1.0 0.6	- 0.03 0	P C - 18 .04 21 .03 19	3 9.0 I 11	Mo - 0.75 0.20	Cu - 0.75 0.34	Fe Bal.	FN 3 10 6
WELD METAL PROPERTIES (ALL WELD METAL)	PROPERTY Tensile strength 0.2% Proof stress Elongation on 4d Reduction of Area (RA) Impact energy 20 °C		UNITS N/mm N/mm % % J	² 550		600	43		OTHERS	
WELDING AMPERAGE AC or DC+	Ø x Length (mm)	2.0 x 300	2.6 x 300	3.2 x 350	4.0 x 350)) 35	.0 < 50			
	Min. Max.	40 60	60 90	75 125	120		30 20			
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.									