



THE MOST RELIABLE WELDING®

HOFFMAN ARC CO., LTD

QUALITY CERTIFICATE OF WELDING CONSUMABLE

Type	Norm	Brand Name	Part #	Diameter	Lot No.	Manufactured Date	Date of Issue
AWS E6011	AWS A5.1/A5.1M-2012	TREFFEN	6001102	1/8" (3.2MM)	20-30013	SHOWN ON PACKAGE	2020 / 09 / 10

Mechanical Properties of Deposited Metal			Chemical Composition of Deposited Metal (%)							
Item		Requirement	Actual Result	Element	Requirement	Actual Result	Element	Requirement	Actual Result	
Yield Strength Rel(MPa)		Min. 330	445	C	Max. 0.20	0.090	Mo	Max. 0.30	0.0061	
Tensile Strength Rm(MPa)		Min. 430	510	Si	Max. 1.00	0.15	V	Max. 0.08	0.0057	
Elongation A5 (%)		Min. 22	23.0	Mn	Max. 1.20	0.72	Cu	--	--	
Impact Test	Impact Temp (°C)	-30	-30	S	Max. 0.035	0.018	Al	--	--	
	Impact Absorbed Energy (J)	Min. 27	97 88 89	P	Max. 0.040	0.010	Ti	--	--	
X-Ray		II	Complies	Cr	Max. 0.20	0.049	--	--	--	
Hydrogen Content (ml/100g)		--	6.8	Ni	Max. 0.30	0.022	Fillet weld test of T-joint		Complies	
Approved Classification Grade		CCS (--)	LR (--)	GL (--)	NK (--)	ABS (--)	BV (--)	DNV (--)	KR (--)	RINA (--)
10050 NW 116TH Way, Suite 15. Medley, Florida 33178. Telf: 305-4205099				This is to certify that the welding consumable conform with the standard						
				Signature		Inspection seal				
										