



THE MOST RELIABLE WELDING®

HOFFMAN ARC CO., LTD

QUALITY CERTIFICATE OF WELDING CONSUMABLE

Type AWS E6011	Norm AWS A5.1/A5.1M-2012	Brand Name TREFFEN	Part # 6001102	Diameter 1/8" (3.2MM)	Lot No. 214680	Manufactured Date SHOWN ON PACKAGE	Date of Issue 2022 / 03 / 18			
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)		≥330	449	C	≤0.20	0.11	Mo	≤0.30	0.0083	
Tensile Strength Rm(MPa)		≥430	536	Si	≤1.0	0.28	V	≤0.08	0.0053	
Elongation A5 (%)		≥22	28.0	Mn	≤1.2	0.70	Cu	--	--	
Impact Test	Impact Temp (°C)	-30	-30	S	--	0.017	Al	--	--	
	Impact Absorbed Energy (J)	≥27	69 63 57	P	--	0.011	Ti	--	--	
X-Ray		--	Complies	Cr	≤0.20	0.025	--	--	--	
Hydrogen Content (ml/100g)		--	--	Ni	≤0.30	0.015	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				