



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. 224130	Manufactured Date SHOWN ON PACKAGE	Date of Issue 2022 / 05 / 19
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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	430	C	≤0.20	0.11	Mo	≤0.30	0.0038	
Tensile Strength Rm(MPa)	≥430	536	Si	≤1.0	0.22	V	≤0.08	0.0076	
Elongation A5 (%)	≥22	24.0	Mn	≤1.2	0.58	Cu	--	--	
Impact Test	Impact Temp (°C)	-30	S	--	0.013	Al	--	--	
	Impact Absorbed Energy (J)	≥27	P	--	0.019	Ti	--	--	
X-Ray	--	Complies	Cr	≤0.20	0.028	--	--	--	
Hydrogen Content (ml/100g)	--	--	Ni	≤0.30	0.014	Fillet weld test of T-joint		Complies	
Approved Classification Grade	GCS (--)	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 