



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
E6011	AWS A5.1/A5.1M-2004	Treffen	6001102	1/8" (3.2mm)	18-3116	Shown on Package	2018 / 11 / 01

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	388	C	Max. 0.2	0.088	Mo	Max. 0.3	0.0010	
Tensile Strength Rm(MPa)		Min. 430	482	Si	Max. 1	0.098	V	Max. 0.08	0.0067	
Elongation A5 (%)		Min. 22	23	Mn	Max. 1.2	0.56	Cu	--	--	
Sharp V noch	Impact Temp (°C)	-30	-30	S	Max. 0.035	0.017	A1	--	--	
	Av. Absorbed Energy (J)	Min. 27	70 65 60	P	Max. 0.04	0.018	Ti	--	--	
X-Ray		--	--	Cr	Max. 0.2	0.024	--	--	--	
Hydrogen Content (ml/130g)		--	--	Ni	Max. 0.3	0.015	--	--	--	
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				
										