



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 5.1/A5.1M-2004	Treffen	6001102	1/8" (3.2mm)	18-361	Shown on Package	2018 / 03 / 30

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)		--	420	C	≤ 0.2	0.075	Mo	≤ 0.30	0.013
Tensile Strength Rm(MPa)		--	474	Si	≤ 0.1	0.58	V	≤ 0.08	0.011
Elongation A5 (%)		--	23.0	Mn	≤ 1.2	1.60	Cu	--	--
Sharp V noch	Impact Temp (°C)	--	-30	S	≤ 0.035	0.0095	A1	--	--
	Av. Absorbed Energy (J)	--	35 31 24	P	≤ 0.04	0.019	Ti	--	--
X-Ray		--	--	Cr	≤ 0.2	0.014	--	--	--
Hydrogen Content (ml/130g)		--	--	Ni	≤ 0.3	0.048	--	--	--
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			
				APPROVED BY LIAO YUGANG		HoffmanArc®			