



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 5.1-2012	TREFFEN	6001102	1/8" (3.2MM)	23-30025	SHOWN ON PACKAGE	2023 / 10 / 11

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	464	C	≤0.2000	0.074	Mo	≤0.3000	0.0019
Tensile Strength Rm(MPa)		≥430	551	Si	≤1.0000	0.092	V	≤0.0800	0.0046
Elongation A5 (%)		≥20.0000	28	Mn	≤1.2000	0.51	Cu	--	--
Impact Test	Impact Temp (°C)	-30	-30	S	≤0.0350	0.007	Al	--	--
	Impact Absorbed Energy (J)	≥27	94 78 81	P	≤0.0400	0.012	Ti	--	--
X-Ray		--	Complies	Cr	≤0.2000	0.016	--	--	--
Hydrogen Content (ml/100g)		--	--	Ni	≤0.3000	0.019	Fillet weld test of T-joint		Complies
Approved Classification Grade		CCS (--)	LR (--)	GL (--)	NK (--)	ABS (--)	BV (--)	DNV (--)	KR (--) RINA (--)

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Telf: 305-4205099

This is to certify that the welding consumable conform with the standard

Signature

APPROVED
BY LIAO
YUGANG

Inspection seal

