



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
E7018	AWS A5.1/A5.1M2012	Sinnvoll	6001803	5/32" (4.0 mm)	20-12046	Shown on Package	2020 / 12 / 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. 400	491	C	Max. 0.15	0.071	Mo	Max. 0.30	0.005	
Tensile Strength Rm(MPa)		490 - 660	580	Si	Max. 0.90	0.57	V	Max. 0.08	0.009	
Elongation A5 (%)		Min. 22	23.0	Mn	Max. 1.60	1.37	Cu	--	--	
Sharp V noch	Impact Temp (°C)	-30	-30	S	Max. 0.035	0.012	A1	--	--	
	Av. Absorbed Energy (J)	Min. 47	133 113 110	P	Max. 0.035	0.011	Ti	--	--	
X-Ray		I	Complies	Cr	Max. 0.20	0.017	--	--	--	
Hydrogen Content (ml/130g)		--	--	Ni	Min. 0.30	0.016	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				