



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
E6013	AWS 5.1/A5.1M-2004	Stark	6001301	3/32" (2.4mm)	181423	Shown on Package	2018 / 07 / 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	382	C	≤ 0.20	0.088	Mo	≤ 0.30	0.0054	
Tensile Strength Rm(MPa)		≥430	476	Si	≤ 1.0	0.21	V	≤ 0.08	0.0088	
Elongation A5 (%)		≥17	26.0	Mn	≤ 1.20	0.26	Cu	--	--	
Sharp V noch	Impact Temp (°C)	--	--	S	--	0.0081	A1	--	--	
	Av. Absorbed Energy (J)	--	--	P	--	0.029	Ti	--	--	
X-Ray		II	I	Cr	≤ 0.20	0.029	--	--	--	
Hydrogen Content (ml/130g)		--	--	Ni	≤ 0.30	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				
										