



THE MOST RELIABLE WELDING®

HOFFMAN ARC CO., LTD

QUALITY CERTIFICATE OF WELDING CONSUMABLE

Type ER70S-6	Norm AWS A5.18 AWS A5.18M 2021	Brand Name ER70S-6	Part # 6107061	Diameter 1/8" (3.2MM)	Lot No. 23-6404	Manufactured Date Shown on Package	Date of Issue 2023 / 12 / 06
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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)		≥400	449	C	0.06~0.15	0.071	Mo	≤0.15	0.0024	
Tensile Strength Rm(MPa)		≥490	568	Si	0.80~1.15	0.89	V	≤0.03	0.0019	
Elongation A5 (%)		≥22	30.5	Mn	1.40~1.85	1.55	Cu	≤0.50	0.045	
Impact Test	Impact Temp (°C)	≥27	280 344 271	S	≤0.035	0.012	--	--	--	
	Av. Absorbed Energy (J)	--	--	P	≤0.025	0.011	--	--	--	
X-Ray		Required	Complies	Cr	≤0.15	0.042	-	--	--	
Ferrite Number (FN)		--	7.5	Ni	≤0.15	0.060	--	--	--	
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®				