

CERTIFIED MATERIAL REPORT

CMR No. : 2512304200005

Date of Issue : 2025-12-30

Customer	Hyundai Welding GMBH		
Trade Name	SM-70 eco	Size	0.8mm*5kg
Lot No.	831158	Purchaser's Order No.	-
Specification	AWS A5.18 ER70S-6 * According to EN 10204-2004 : 3.1 EN ISO 14341-A -G 42 4 M21 3Si1		

Welding Current	DCEP	Shielding Gas	ISO 14175 M21	Post Weld Heat Treatment (°C × hr.)	AS WELDED
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Mechanical Properties

Weld Metal	Tensile Test			Impact Test (CVN - Joule)				
	YS(MPa)	TS(MPa)	EL(%)	Temp.(°C)	X1	X2	X3	Avg.
	444	534	31.7	-40	117	125	118	120
AWS Spec.	≥ 400	≥ 490	≥ 22	-				

Chemical Composition (%)

WIRE	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	
	0.06	0.87	1.54	0.011	0.008	0.23	0.01	0.01	0.01	0.01	
AWS Spec.	0.06 ~0.15	0.80 ~1.15	1.40 ~1.85	≤ 0.025	≤ 0.035	≤ 0.50	≤ 0.15	≤ 0.15	≤ 0.15	≤ 0.03	

Others

We hereby certify that the material covered by this report has been inspected in accordance with and been found to meet the applicable requirements of specification and customer's requirements.

Approved by

K.W. Park

QA Manager Park K. W.



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