

CERTIFIED MATERIAL REPORT

CMR No. : 2504284200005

Date of Issue : 2025-04-28

Customer	Hyundai Welding GMBH		
Trade Name	SM-70EN eco	Size	0.8mm*15kg
Lot No.	5439993	Purchaser's Order No.	-
Specification	AWS A5.18 ER70S-6 * According to EN 10204-2004 : 3.1 EN ISO 14341-A -G 46 4 M21 4Si1		

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.
	466	564	32.8	-40	127	131	138	132
AWS Spec.	≥ 400	≥ 490	≥ 22	-				

Chemical Composition (%)

WIRE	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	
	0.07	0.97	1.77	0.010	0.011	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



QA Manager Park K. W.

**HYUNDAI WELDING CO., LTD.****Head Office**

507, Teheran-ro, Gangnam-gu, Seoul, Republic of Korea

Pohang Plant

100, Daesong-ro, Nam-gu, Pohang, Republic of Korea

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