

# CERTIFIED MATERIAL REPORT

CMR No. : 2508274200002

Date of Issue : 2025-08-27

Customer	Hyundai Welding GMBH		
Trade Name	SM-70EN eco	Size	1.2mm*15kg
Lot No.	5431641	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 ( x hr.)	AS WELDED
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### Mechanical Properties

Weld Metal	Tensile Test			Impact Test (CVN - Joule)				
	YS(MPa)	TS(MPa)	EL(%)	Temp.( )	X1	X2	X3	Avg.
	465	564	33.5	-40	130	134	132	132
AWS Spec.	400	490	22	-				

### Chemical Composition (%)

WIRE	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V
	0.06	0.99	1.80	0.009	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.



## HYUNDAI WELDING CO., LTD.

Head Office

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# CERTIFIED MATERIAL REPORT

CMR No. : 2508274200001

Date of Issue : 2025-08-27

Customer	Hyundai Welding GMBH		
Trade Name	SM-70EN eco	Size	1.0mm*15kg
Lot No.	5431641	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 ( x hr.)	AS WELDED
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## Mechanical Properties

Weld Metal	Tensile Test			Impact Test (CVN - Joule)				
	YS(MPa)	TS(MPa)	EL(%)	Temp.( )	X1	X2	X3	Avg.
	466	566	33.8	-40	134	135	136	135
AWS Spec.	400	490	22	-				

## Chemical Composition (%)

WIRE	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	
	0.06	0.99	1.80	0.009	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.

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