

CERTIFIED MATERIAL REPORT

CMR No. : 1602183700016

Date of Issue : 2016-02-18

Customer	M.Bindt Norway		
Trade Name	SM-70 eco	Size	1.0mm*15kg
Lot No.	830969	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				
Mechanical Properties		Tensile Test			Impact Test (CVN - Joule)				
		YS(MPa)	TS(MPa)	EL(%)	Temp.(°C)	X1	X2	X3	Avg.
		428	537	28.0	-40	102	105	104	104
AWS Spec.		≥ 400	≥ 480	≥ 22	-				

Chemical Composition (%)

	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	
(WIRE)	0.09	0.88	1.52	0.012	0.012	0.21	0.01	0.03	0.06	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 #507, Teheran-ro, Gangnam-gu, Seoul, Republic of Korea

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