


# CERTIFIED MATERIAL REPORT

CMR No. : 1505213500012

Date of Issue : 2015-05-21

Customer		M.BINDT TRADING									
Trade Name		SC-71MJ			Size		1.2mm*5kg				
Lot No.		20006686AA5EE1			Purchaser's Order No.		-				
Applicable Specification		AWS A5.20 E71T-9M-J * According to EN 10204-2004 : 3.1 Equivalent to EN ISO 17632-A T 46 4 P M 1									
Welding Current	DCEP	Shielding Gas	80%Ar+20%CO <sub>2</sub>			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.		
		526	570	27.4	-40	81	107	95	94		
Spec.		≥ 390	490~670	≥ 22	≥ 27						
Chemical Composition (%)											
(Weld Metal)		C	Si	Mn	P	S	Ni	Cr	Mo	V	Cu
		0.06	0.35	1.12	0.013	0.007	0.49	0.04	0.01	0.02	0.03
		Spec. ≤ 0.12	≤ 0.90	≤ 1.75	≤ 0.03	≤ 0.03	≤ 0.50	≤ 0.20	≤ 0.30	≤ 0.08	≤ 0.35
<p>Others</p> 											
<p>We hereby certifies 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.</p> <p style="text-align: right;">Approved by</p> <p style="text-align: right; font-size: 1.2em; color: blue;"><i>K.W. Park</i></p> <p style="text-align: right; border-top: 1px solid black; width: 150px; margin-left: auto;">QA Manager Park K. W.</p>											



**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