


CERTIFIED MATERIAL REPORT

CMR No. : 1412113500022

Date of Issue : 2014-12-11

Customer		M.BINDT TRADING										
Trade Name		SC-71MJ				Size		1.0mm*5kg				
Lot No.		20007951AA4GE1				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 ₂			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.			
		506	558	27.6	-40	72	92	89	84			
Spec.		≥390	490~670	≥22	≥27							
Chemical Composition (%)												
(Weld Metal)		C	Si	Mn	P	S	Ni	Cr	Mo	V	Cu	
		0.06	0.27	1.03	0.012	0.006	0.49	0.03	0.01	0.02	0.02	
		Spec. ≤0.12	≤0.90	≤1.75	≤0.03	≤0.03	≤0.50	≤0.20	≤0.30	≤0.08	≤0.35	
*Hydrogen Content(ml/100g) (AWS A4.3) : 4.46												
Others												
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.												
Approved by  QA Manager Lee, S. H.												



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