

CERTIFIED MATERIAL REPORT

CMR No. : 1612233700003

Date of Issue : 2016-12-23

Customer	M.BINDT TRADING		
Trade Name	S-7028.F	Size	5.0mm*550mm
Lot No.	10006006AA5KA1	Purchaser's Order No.	-
Specification	AWS A5.1 E7028 * According to EN 10204-2004 : 3.1 Equivalent to EN ISO 2560-A E42 2 B 7 4		

Welding Current	AC	Shielding Gas	-	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.
	485	565	24.0	-20	53	51	53	52
AWS Spec.	≥ 400	≥ 490	≥ 22	≥ 27				

Chemical Composition (%)

	C	Si	Mn	P	S	Ni	Cr	Mo	V		
(Weld Metal)	0.08	0.33	1.08	0.040	0.009	0.02	0.03	0.01	0.03		
AWS Spec.	≤ 0.15	≤ 0.90	≤ 1.60	≤ 0.035	≤ 0.035	≤ 0.30	≤ 0.20	≤ 0.30	≤ 0.08		

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