

# CERTIFIED MATERIAL REPORT

CMR No. : 1506153500010

Date of Issue : 2015-06-15

Customer	M.BINDT TRADING		
Trade Name	S-6013.LF	Size	3.2mm*350mm
Lot No.	536020	Purchaser's Order No.	-
Applicable Specification	AWS A5.1 E6013                      * According to EN 10204-2004 : 3.1 EN ISO 2560-A E 38 0 R 1 2		

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.
	425	492	26.8		-	-	-	-
Spec.	≥ 330	≥ 430	≥ 17	-				

**Chemical Composition (%)**

	C	Si	Mn	P	S	Ni	Cr	Mo	V		
	(Weld Metal)	0.07	0.32	0.42	0.016	0.014	0.03	0.03	0.01	0.01	
	Spec.	≤ 0.20	≤ 1.00	≤ 1.20	-	-	≤ 0.30	≤ 0.20	≤ 0.30	≤ 0.08	

**Others**

Tested with S-6013.LF 4.0mm to obtain the above results.

ORIGINAL

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

**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