

CERTIFIED MATERIAL REPORT

CMR No. : OL1211352308

Date of Issue 2013/12/12

Customer	M.BINDT TRADING		
Trade Name	S-309MoL.16	Size	3.2 mm * 350 mm
Lot No.	25507	Purchaser's Order No.	-
Applicable Specification	AWS A5.4 E309LMo-16 EN ISO 3581-A E 23 12 2 L R		

Welding Current	AC	Shielding Gas	-	Post Weld Heat Treatment (°C × hr.)	AS WELDED
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Mechanical Properties	Tensile Test			Impact Test (CVN - Joule)				
	YS (MPa)	TS (MPa)	EL (%)	Temp.(°C)	X1	X2	X3	Avg.
	-	656	34.4					
Spec.	-	≥517	≥30					

Chemical Composition (%)

	C	Si	Mn	P	S	Cu	Ni	Cr	Mo		
(Weld Metal)	0.02	0.57	0.99	0.021	0.015	0.02	12.22	22.92	2.49		
Spec.	≤0.04	≤1.00	0.5 ~2.5	≤0.04	≤0.03	≤0.75	12.0 ~14.0	22.0 ~25.0	2.0 ~3.0		

Others

* According to EN 10204-2004 : 3.1(Chemical), 2.2(Mechanical)

*CONTRACT NO.: 43976
19,480KG

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.

ORIGINAL

Approved by

Sang Hee Lee

QA Manager Lee, S. H.



HYUNDAI WELDING CO., LTD.

Head Office 157-37, Samsung-dong, Gangnam-gu, Seoul, Republic of Korea
Pohang Plant 90-5, Jangheung-dong, Nam-gu, Pohang-si, Republic of Korea