

# CERTIFIED MATERIAL REPORT

CMR No. : 1605233700011

Date of Issue : 2016-05-23

Customer	M.BINDT TRADING		
Trade Name	S-316L.16N	Size	2.6mm*300mm
Lot No.	66604	Purchaser's Order No.	-
Specification	AWS A5.4 E316L-16 EN ISO 3581-A E 19 12 3 L R		

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.
	475	594	44.8		-	-	-	-
AWS Spec.	-	≥ 490	≥ 30	-				

Chemical Composition (%)

	C	Si	Mn	P	S	Cu	Ni	Cr	Mo		
(Weld Metal)	0.03	0.80	0.90	0.018	0.015	0.03	12.14	18.97	2.75		
AWS Spec.	≤0.04	≤1.00	0.5 ~2.5	≤0.04	≤0.03	≤0.75	11.0 ~14.0	17.0 ~20.0	2.0 ~3.0		

Others

\* According to EN 10204-2004 : 3.1(Chemical)

ORIGINAL

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