

ORIGINAL

# CERTIFIED MATERIAL REPORT

CMR No. : 2011114000002

Date of Issue : 2020-11-11

Customer	Lascentrum Norge		
Trade Name	S-309MoL.16	Size	2.6mm*300mm
Lot No.	205703	Purchaser's Order No.	-
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

Weld Metal	Tensile Test			Impact Test (CVN - Joule)				
	YS(MPa)	TS(MPa)	EL(%)	Temp.(°C)	X1	X2	X3	Avg.
	568	728	32.0		-	-	-	-
AWS Spec.	-	≥520	≥30		-			

### Chemical Composition (%)

\* According to EN 10204-2004 : 3.1

Weld Metal	C	Si	Mn	P	S	Cu	Ni	Cr	Mo		
	0.03	0.89	1.25	0.015	0.009	0.02	13.00	24.54	2.39		
AWS 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

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.



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