

**ORIGINAL**

# CERTIFIED MATERIAL REPORT

CMR No. : 2103054000002

Date of Issue : 2021-03-05

Customer	Lascentrum Norge		
Trade Name	SC-71LHM Cored	Size	1.2mm*15kg
Lot No.	MF20423J0	Purchaser's Order No.	-
Specification	AWS A5.36 E71T1-M21A2-CS1 EN ISO 17632-A - T46 3 P M21 1 H5		

Welding Current	DCEP	Shielding Gas	80%Ar+20%CO <sub>2</sub>	Post Weld Heat Treatment (°C × hr.)	AS WELDED
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Mechanical Properties \* According to EN 10204-2004 : 3.1

Weld Metal	Tensile Test			Impact Test (CVN - Joule)				
	YS(MPa)	TS(MPa)	EL(%)	Temp.(°C)	X1	X2	X3	Avg.
	492	547	28.5	-30	64	57	65	62
AWS Spec.	≥ 400	490-660	≥ 22	≥ 27				

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

Weld Metal	C	Si	Mn	P	S	Ni	Cr	Mo	V	Cu	
	0.05	0.47	1.09	0.011	0.009	0.03	0.04	0.01	0.01	0.01	
AWS Spec.	≤ 0.12	≤ 0.90	≤ 1.75	≤ 0.030	≤ 0.030	≤ 0.50	≤ 0.20	≤ 0.30	≤ 0.08	≤ 0.35	

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*

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