

# CERTIFIED MATERIAL REPORT

CMR No. : 2006174000001

Date of Issue : 2020-06-17

Customer	Lascentrum Norge		
Trade Name	SM-70	Size	0.8mm*15kg
Lot No.	86603111	Purchaser's Order No.	-
Specification	AWS A5.18 ER70S-6 EN ISO 14341-A G 42 4 M21 3Si1		

Welding Current	DCEP	Shielding Gas	80%Ar+20%CO	Post Weld Heat Treatment ( x 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.( )	X1	X2	X3	Avg.
	523	600	26.0	-40	80	90	96	89
AWS Spec.	400	480	22	-				

Chemical Composition (%)											* According to EN 10204-2004 : 3.1	
WIRE	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V		
	0.08	0.83	1.54	0.022	0.010	0.17	0.02	0.03	0.01	0.01		
AWS Spec.	0.06 0.15	0.80 1.15	1.40 1.85	0.025	0.035	0.50	0.15	0.15	0.15	0.03		

**Others**  
 Tested with SM-70 1.2mm to obtain the above results.

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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