

# CERTIFIED MATERIAL REPORT

CMR No. : 1707073700024

Date of Issue : 2017-07-07

Customer	Hyundai Welding GMBH		
Trade Name	SC-71LHM Cored	Size	1.2mm*15kg
Lot No.	20003623AA7FE2	Purchaser's Order No.	-
Specification	AWS A5.36 E71T1-M21A2-CS1 * According to EN 10204-2004 : 3.1 EN ISO 17632-A T 46 3 P M21 1 H5		

Welding Current	DCEP	Shielding Gas	80%Ar+20%CO	Post Weld Heat Treatment ( x hr.)	AS WELDED			
Mechanical Properties	Tensile Test			Impact Test (CVN - Joule)				
	YS(MPa)	TS(MPa)	EL(%)	Temp. ( )	X1	X2	X3	Avg.
	519	570	28.4	-30	86	76	73	78
AWS Spec.	400	490 660	22	27				

Chemical Composition (%)											
	C	Si	Mn	P	S	Ni	Cr	Mo	V	Cu	
	(Weld Metal)	0.04	0.52	1.18	0.009	0.004	0.01	0.03	0.01	0.02	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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