

# CERTIFIED MATERIAL REPORT

CMR No. : 1702273700015

Date of Issue : 2017-02-27

Customer	M.BINDT TRADING		
Trade Name	SC-71LHM Cored	Size	1.0mm*5kg
Lot No.	MF7412	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 M 1		

Welding Current	DCEP	Shielding Gas	80%Ar+20%CO <sub>2</sub>	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.
	545	606	28.2	-30	53	50	54	52
AWS Spec.	≥ 400	490~660	≥ 22	≥ 27				

### Chemical Composition (%)

(Weld Metal)	C	Si	Mn	P	S	Ni	Cr	Mo	V	Cu	
	0.05	0.44	1.16	0.011	0.010	0.04	0.05	0.01	0.01	0.03	
	AWS Spec.	≤ 0.12	≤ 0.90	≤ 1.75	≤ 0.030	≤ 0.030	≤ 0.50	≤ 0.20	≤ 0.30	≤ 0.08	≤ 0.35

\*Hydrogen Content(ml/100g) ( AWS A4.3 ) : 3.80

### Others

Tested with SC-71LHM Cored 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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