

# CERTIFIED MATERIAL REPORT

CMR No. : 1611263700022

Date of Issue : 2016-11-26

Customer	M.BINDT TRADING		
Trade Name	SC-70T Cored	Size	1.0mm*15kg
Lot No.	20007908AA6KG2	Purchaser's Order No.	-
Specification	AWS A5.36 E70T15-M21A2-CS1 EN ISO 17632-A T 46 2 M M 1 <span style="float: right;">* According to EN 10204-2004 : 3.1</span>		

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.
	524	592	27.4	-30	57	61	63	60
AWS Spec.	≥ 400	490-660	≥ 22	≥ 27				

Chemical Composition (%)

	C	Si	Mn	P	S	Ni	Cr	Mo	V	Cu	
(Weld Metal)	0.06	0.67	1.63	0.009	0.011	0.03	0.04	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 ) : 4.78

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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