

CERTIFIED MATERIAL REPORT

CMR No. : NL2711352301

Date of Issue 2012/12/27

Customer	M.BINDT TRADING		
Trade Name	SM-70 eco	Size	1.0 mm * 15 kg
Lot No.	839109	Purchaser's Order No.	-
Applicable Specification	AWS A5.18 ER70S-6 EN ISO 14341-A G3Si1 * According to EN10204 3.1 : 2004		

Welding Current	DCEP	Shielding Gas	ISO 14175 M21	Post Weld Heat Treatment (°C × hr.)	AS WELDED
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Mechanical Properties	Tensile Test			Impact Test (CVN - Joule)				
	YS (MPa)	TS (MPa)	EL (%)	Temp.(°C)	X1	X2	X3	Avg.
	430	542	28.0	-40	104	99	101	101
Spec.	≥400	≥482	≥22	-				

Chemical Composition (%)

	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V
(WIRE)	0.07	0.84	1.46	0.011	0.008	0.21	0.04	0.05	0.01	0.01
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

*CONTRACT NO.:15154
18.360MT

We hereby certifies 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.

ORIGINAL

Approved by

Sang Hee Lee

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