

# CERTIFIED MATERIAL REPORT

CMR No. : 1409113500006

Date of Issue : 2014-09-11

Customer	M.BINDT TRADING		
Trade Name	SM-70 eco	Size	1.2mm*250kg
Lot No.	539326	Purchaser's Order No.	-
Applicable Specification	AWS A5.18 ER70S-6      * According to EN 10204-2004 : 3.1 EN ISO 14341-A 3Si1		

Welding Current	DCEP	Shielding Gas	ISO 14175 M21	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.
		429	535	30.0	-40	99	100	101	100
Spec.		≥ 400	≥ 480	≥ 22	-				

Chemical Composition (%)

	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V
(WIRE)	0.11	0.95	1.45	0.012	0.011	0.28	0.07	0.08	0.01	0.01
Spec.	0.06 ~ 0.15	0.80 ~ 1.15	1.40 ~ 1.85	≤ 0.02	≤ 0.03	≤ 0.50	≤ 0.15	≤ 0.15	≤ 0.15	≤ 0.03

Others

\* Q'ty : 1,000kg

ORIGINAL

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.

Approved by

*Sang Hoo Lee*

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