CERTIFIED MATERIAL REPORT

CMR No. : 1703103700006 Date of Issue : 2017-03-10

Customer	M.BINDT TRADING		
Trade Name	S-7048.V	Size	3.2mm*350mm
Lot No.	10004193AA6LA1	Purchaser's Order No.	-
Specification	AWS A5.1 E7048 * According to EN 10204-2004 : 3.1 EN ISO 2560-A E42 3 B 3 5		

Welding Current	AC	Shielding Gas	-	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.
	440	564	28.0	-30	92	86	92	90
AWS Spec.	≥400	≥490	≥22	≥27				

Chemical Composition (%)

	C	Si	Mn	P	S	Ni	Cr	Mo	V		
(Weld Metal)	0.07	0.34	0.88	0.011	0.007	0.02	0.03	0.01	0.01		
AWS Spec.	≤0.15	≤0.90	≤1.60	≤0.035	≤0.035	≤0.30	≤0.20	≤0.30	≤0.08		

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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