

CERTIFIED MATERIAL REPORT

CMR No. : 1510303500015

Date of Issue : 2015-10-30

Customer	M.BINDT TRADING		
Trade Name	S-7048.V	Size	3.2mm*350mm
Lot No.	10004193AB4JA1	Purchaser's Order No.	-
Applicable 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.
	439	549	28.8	-30	91	103	107	100
Spec.	≥ 400	≥ 490	≥ 22	≥ 27				

Chemical Composition (%)											
(Weld Metal)	C	Si	Mn	P	S	Ni	Cr	Mo	V		
	0.08	0.35	0.82	0.017	0.006	0.03	0.03	0.01	0.01		
	Spec. ≤ 0.15	≤ 0.90	≤ 1.60	≤ 0.035	≤ 0.035	≤ 0.30	≤ 0.20	≤ 0.30	≤ 0.08		

Others

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
K.W. Park
QA Manager Park K. W.