

# CERTIFIED MATERIAL REPORT

CMR No. : 1601083500024

Date of Issue : 2016-01-08

Customer	M.BINDT TRADING		
Trade Name	S-7048.V	Size	3.2mm*350mm
Lot No.	10004193AA4JA1	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.
	439	549	28.8	-30	91	103	107	100
AWS Spec.	≥ 400	≥ 490	≥ 22	≥ 27				

### Chemical Composition (%)

	C	Si	Mn	P	S	Ni	Cr	Mo	V		
(Weld Metal)	0.08	0.35	0.82	0.017	0.006	0.03	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

ORIGINAL

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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