

CERTIFIED MATERIAL REPORT

CMR No. : 1612233700010

Date of Issue : 2016-12-23

Customer	M.BINDT TRADING		
Trade Name	S-2209.16	Size	3.2mm*350mm
Lot No.	611010	Purchaser's Order No.	-
Specification	AWS A5.4 E2209-16 EN ISO 3581-A E 22 9 3 N L		

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.
	650	822	26.8		-	-	-	-
AWS Spec.	-	≥ 690	≥ 20	-				

Chemical Composition (%)

	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	N	
(Weld Metal)	0.03	0.68	0.80	0.021	0.016	0.09	9.03	22.61	3.17	0.10	
AWS Spec.	≤0.04	≤1.00	0.5 ~2.0	≤0.04	≤0.03	≤0.75	8.5 ~10.5	21.5 ~23.5	2.5 ~3.5	0.08 ~0.20	

Others

* According to EN 10204-2004 : 3.1(Chemical)

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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