

CERTIFIED MATERIAL REPORT

CMR No. : 1706293700013

Date of Issue : 2017-06-29

Customer	M.BINDT TRADING		
Trade Name	S-312.16	Size	4.0mm*350mm
Lot No.	63512	Purchaser's Order No.	-
Specification	AWS A5.4 E312-16 Equivalent to EN ISO 3581-A E 29 9 R		

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.
	620	795	23.2		-	-	-	-
AWS Spec.	-	≥ 660	≥ 22	-				

Chemical Composition (%)

	C	Si	Mn	P	S	Cu	Ni	Cr	Mo		
(Weld Metal)	0.11	0.67	0.70	0.019	0.011	0.10	10.05	28.26	0.10		
AWS Spec.	≤0.15	≤ 1.00	0.5 ~2.5	≤0.04	≤0.03	≤0.75	8.0 ~10.5	28.0 ~32.0	≤0.75		

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

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