

CERTIFIED MATERIAL REPORT

CMR No. : OC2911352370

Date of Issue 2013/03/29

Customer	M.BINDT TRADING		
Trade Name	S-310.16	Size	3.2 mm * 350 mm
Lot No.	21511	Purchaser's Order No.	-
Applicable Specification	AWS A5.4 E310-16 Equivalent to EN 1600 E 25 20 R		
		* According to EN10204 3.1 : 2004	

Welding Current	AC	Shielding Gas	-	Post Weld Heat Treatment (°C × hr.)	AS WELDED
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Mechanical Properties	Tensile Test			Impact Test (CVN - Joule)				
	YS (MPa)	TS (MPa)	EL (%)	Temp.(°C)	X1	X2	X3	Avg.
	-	629	31.4					
Spec.	-	≥550	≥30					

Chemical Composition (%)

	C	Si	Mn	P	S	Cu	Ni	Cr	Mo		
(Weld Metal)	0.14	0.55	1.75	0.019	0.010	0.03	20.47	26.84	0.09		
Spec.	0.08 ~0.20	≤0.75	1.0 ~2.5	≤0.03	≤0.03	≤0.75	20.0 ~22.5	25.0 ~28.0	≤0.75		

Others

*CONTRACT NO.:
10916 10915 39,110

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.

ORIGINAL

Approved by

Sang Hee Lee

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