

CERTIFIED MILL TEST REPORT

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Quality Steel 100% EAF Melted and Manufactured in the USA ongv ew , ISO 9001:2015 and ABS Certified CMTR complies with EN 10204 3.1.

GENE	RAL IN	FORM	ATION		SPECIFI		NS Idards		Grades			SHIPMENT DETAILS				BOL # 0000824148 - 4000.00 lbs					
Heat N	Product Size Number ition(s)	C310X37 A242695			A « AS AS AAS	6/A6M - 2 92/A992M 2/A572M - 9/A709M - 70M/M270 40.21-13 6/A36M -	I - 22 - 21 - 21 0 - 23	A572 gr50/gr3 A709 gr50/gr3				/ ASN # 11599	Length 20' 0"		Cust PO 4500574044	Job/R JP425	ef	Part/Ref 000000002512250			
CHEMICAL ANALYSIS (weight percent)																					
 .07	<u>Mn</u> 1.24	P .013	S .024	Si .22	<u>Cu</u> .34	<u>Ni</u> .13	<u>Cr</u> .13	<u>Mo</u> .03	Sn .012	V .036	Nb/Cb .002	AI .001	N .0142	B .0005	*CE .35		* CE3 .30	* 5.85	Analysis Type Heat		
				.22	.01	.10	.10									e of order)	.00	0.00			
Test 1 2 3 4	Yield (fy) Ter Strength S		Tensil Strei ksi / 77 / 77 /	ngth MPa 530 530	h fy/fu a ratio) .78) .75		<u>{8" gage}</u> 26 25		Temp F / C	b Abs Sp	orbed Energ	gy ft-lb <u>Specimen</u>	f / J <u>2</u> Spe	ecimen 3	_Av		<u>Minimum</u>				
Notes: *Calculated Chemistry Values: Carbon Equivalents (C1, C2, C3, PC), Corrosion Index (I) {ASTM G101}= 26.01(Cu)+3.88(Ni)+1.20(Cr)+1.49(Si)+17.29(P)-7.29(Cu)(Ni)-9.10(Ni)(P)-33.39(Cu ²) CE1 {IIW}=C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15 CE2 {AWS}=C+(Mn+Si)/6+(Cr+Mo+V)/5+(Ni+Cu)/15 CE3 {CET} = C + (Mn/6) + (Si/24) + (Cr/5) + (Ni/40) + (V/14)																					
I hereby certify that the material described herein has been made to the applicable specification by the electric arc furnace/continuous cast process and tested in accordance with the requirements of American Bureau of Shipping Rules with satisfactory results. Signed:												ABS CERTIFICATION									
I hereby certify that the content of this report are accurate and correct. All tests and												State of Indiana, County of Whitley Sworn to and subscribed before me									
•	operations performed by this material manufacturer are in compliance with the requirements of the material specifications and applicable purchaser designated requirements.												this day of								
Signed: Doug Blomeke My Kolk Form F-6100-002-054 rev 8 Quality Manager												Signed: My commission expires:									
<u>⊢orm ⊢-61</u>	00-002-054 re	-	M A6 - 14	.6: A się							ument shall og the report i		ify the orga	anization su		ng the report.		Page 11	of 16		