



12400 Highway 43 North, Axis, Alabama 36505, US

Test Certificate

WARNING: This product can expose you to chemicals including nickel and nickel compounds, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Form TC1: Revision 5: Date 22 Aug 2022

Customer:	Customer P.O.No.: HOU-18324	Mill Order No.: 41-752737-15	Shipping Manifest: AR409750A
	Product Description: ASTM A572-50/M345(21)/A709-50/M345(21) TYPE 2, .010% MAX S LCVN 20 FT.LBS @ -22F/A673-H AASHTO M270(23) 50/345		Ship Date: 16 Oct 24 Cert Date: 17 Oct 24
	Size: 1.375 X 120.0 X 480.0 (IN)		Cert No: 081197416 (Page 1 of 1)

Tested Pieces:				Tensiles:					Charpy Impact Tests												
Heat Id	Piece Id	Tested Thickness	Tst Loc	YS (KSI)	UTS (KSI)	%RA	Elong % 2in 8in	Tst Dir	Hardness	Abs. Energy(FTLB)				% Shear				Tst Tmp	Tst Dir	Tst Stz (mm)	BDWTT Tmp %Shr
										1	2	3	Avg	1	2	3	Avg				
E4J085	A35	1.376 (DISCRT)	L	52	78		35	T		41	29	49	40					-22F	L	10.0	

Chemical Analysis

Heat Id	C	Mn	P	S	Si	Tot Al	Sol Al	Cu	Ni	Cr	Mo	Cb	V	Ti	IIW	ORGN
E4J085	.16	1.05	.016	.001	.21	.026	.024	.24	.11	.11	.03	.004	.035	.002	.40	USA

KILLED STEEL
 MERCURY IS NOT A METALLURGICAL COMPONENT OF THE STEEL AND NO MERCURY WAS INTENTIONALLY ADDED DURING THE MANUFACTURE OF THIS PRODUCT.
 KILLED STEEL, PRODUCED TO A FINE GRAIN PRACTICE
 CEV (IIW) = C + MN/6 + (CR+MO+V)/5 + (NI+CU)/15
 MTR EN 10204:2004 INSPECTION CERTIFICATE 3.1 COMPLIANT
 100% MELTED, Poured, AND ROLLED IN THE USA
 NO WELD REPAIR HAS BEEN PERFORMED ON THIS MATERIAL.
 PRODUCTS SHIPPED:
 E4J085 A35 PCES: 2, LBS: 44922

(P) Cust Part #:	WE HEREBY CERTIFY THAT THIS MATERIAL WAS TESTED IN ACCORDANCE WITH, AND MEETS THE REQUIREMENTS OF, THE APPROPRIATE SPECIFICATION	 Jason Thomas Director Technical Services
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Packing List 30449-1 (7/31/2025) Image 73139 (7/31/2025)

Our Order 227689-1-1 Your Order 258971