

SSAB

Test Certificate

12400 Highway 43 North, Axis, Alabama 36505, US

Form TC1: Revision 4: Date 6 Feb 2019

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.

Customer:

Customer P.O. No.: HOU-10549 MIM Order No. 41-678895-02 Shipping Manifest: AR362834
 Product Description: ABS (2022) GR A / GR B Ship Date: 19 Aug 22 Cert No: 081063993
 ASTM A36(9)/A709(2)36/ASME SA36(2) Cert Date: 19 Aug 22 (Page 1 of 1)
 ASTM A283-C(18)/ASME SA283-C(21)
 0.80-0.90% MN, 0.10% MAX S

Size: 0.313 X 96.00 X 480.0 (IN)

Heat Id	Place Id	Tested Thickness	Tst Loc	YS (KSI)	UTS (KSI)	%RA	Elong %		Tst Dir	Hardness	Abs. Energy (FTLb)			Charpy Impact Tests			BOWITT Tmp %Shr	
							2in	8in			1	2	3	Avg	1	2		3
E2H172	C39	0.319 (DISCRT)	L 52	70	70	40			T		1	2	3	Avg				
E2H172	C43	0.506 (DISCRT)	L 51	70	70	40			T		1	2	3	Avg				

Heat Id	C	Mn	P	S	SI	Total Sol Al	Cu	Chemical Analysis						V	Ti	Cov	ORGN USA
								Ni	Cr	Mo	Ca	Si	Al				
E2H172	.15	.85	.011	.002	.03	.030	.028	.29	.16	.14	.03	.001	.003	.013	.29		

KILLED STEEL
 MERCURY IS NOT A METALLURGICAL COMPONENT OF THE STEEL AND NO MERCURY WAS INTENTIONALLY ADDED DURING THE MANUFACTURE OF THIS PRODUCT.
 WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN HAS BEEN MADE BY SSAB AMERICAS BY THE ELECTRIC FURNACE / STRAND CAST PROCESS AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AMERICAN BUREAU OF SHIPPING RULES WITH SATISFACTORY RESULTS.
 CEV = C + MN/6
 KILLED STEEL, PRODUCED TO A FINE GRAIN PRACTICE
 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: E2H172 POES: 12, IBS: 49080

WE HEREBY CERTIFY THAT THIS MATERIAL WAS TESTED IN ACCORDANCE WITH, AND MEETS THE REQUIREMENTS OF, THE APPROPRIATE SPECIFICATION

Jason Thomas
 Director Technical Services

Cust Part #: _____