

SSAB

Test Certificate

12400 Highway 43 North, Axis, Alabama 36505, US

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 T01; Revision 5; Date 22 Aug 2022

Customer: **Customer P.O.No. HOU-10907** Mill Order No. 41-706990-01 Shipping Manifest: AR379414

Product Description: **ABS (2023) GRA / GR B** Ship Date: 12 May 23 Cert No: 081111609
ASTM A36(19)/A709(21)36/ASME SA36(21) Cert Date: 12 May 23 (Page 1 of 1)
ASTM A283-C(18)/ASME SA283-C(21)
0.80-0.90% MN, 0.10% MAX S

Size: 0.188 X 96.00 X 480.0 (IN)

Heat Id	Piece Id	Tested Thickness	Tst Loc	Tensiles:		Charpy Impact Tests			Tst Dir	Tst Siz (mm)	BDWTT Temp %shr
				YS (KSI)	UTS (KSI)	%RA	Elong %	2			
W3E587	D04	0.195 (DISCRT)	L 57	67							
W3E587	D05	0.186 (DISCRT)	L 66	66							

Heat Id: W3E587

Chemical Analysis:

C	Mn	P	S	SI	TOTAL SOLAI	Cu	NI	Cr	Mo	Cb	V	Ti	Co	ORGN
.06	.84	.013	.007	.30	.026	.024	.31	.11	.15	.03	.001	.003	.020	USA

PCES: 20, LBS: 49140

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
 MFR 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: D04 PCES: 20, LBS: 49140

(e) 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