

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 TQ1: Revision 5: Date 22 Aug 2022

Customer:

Customer P.O.No.:HOU-10992

Mill Order No. 41-713275-01

Shipping Manifest: AR383366

Product Description: ABS (2023) GR A / GR B

Ship Date: 06 Jul 23

Cert No: 081123431
(Page 1 of 1)

ASTM A36(19)/A709(21)36/ASME SA36(21)
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	YS (KSI)	UTS (KSI)	%RA	Elong %		Tst Dir	Hardness	Abs. Energy(FTLB)			Tst Temp	Tst Dir	Tst Siz (mm)	BDWTT Temp %Shr
							2in	8in			1	2	3				
E3F354	B45	0.195 (DISCRT)	L	54	66		38		T								
E3F354	B48	0.256 (DISCRT)	L	51	64		42		T								
<p>Heat C Mn P S Si Total SolAI Cu Ni Cr Mo Cb V TI Cev</p> <p>E3F354 .05 .84 .012 .001 .29 .027 .024 .32 .11 .14 .03 .003 .002 .019 .19</p> <p>ORGN USA</p>																	

TESTED PIECES:

TENSILES:

CHARPY IMPACT TESTS:

CHEMICAL ANALYSIS:

ORGANIZATION:

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:
E3F354 B46 PCS: 19, LBS: 46683

(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