

PO/Rel

Attn:

PART NO.



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.

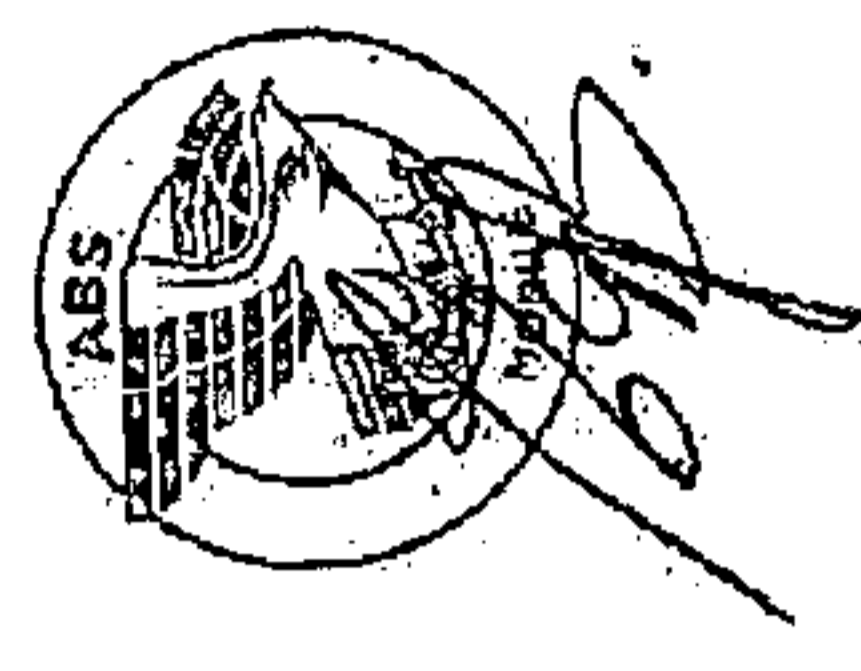
12400 Highway 43 North, Axis, Alabama 36505, US

Form TC1: Revision 4: Date 6 Feb 2019

Customer: SSAB SPRING HOUSE PA 19477		Customer P.O.No.: HOU-10189		Mill Order No. 41-647574-04		Shipping Manifest: AR343714												
Product Description: API2H-50(07/12).A633C(18).ABSDHVEH36(21) S1,S3,S5:16%C,.010%N,.020%P,.020%TI MAX ASTM A572-50(21),ASTM A537(20)CL.1,DEGAS MILS22688C(88/94)DH36;JTCVN 3025@-50F		Ship Date: 21 Sep 21		Cert No: 081009993		Cert Date: 21 Sep 21 (Page 1 of 2)												
Heat Treat Type: NORMALIZED																		
Size: 0.375 X 120.0 X 480.0 (IN)																		
Tensiles:		Charpy Impact Tests		Chemical Analysis														
Heat Id	Piece Id	Tested Thickness	Tst Loc	YS (KSI)	UTS (KSI)	%RA	Elong % 2in 8in	Tst Dir	Hardness	Abs. Energy(FTLB) 1 2 3 Avg	% Shear 1 2 3 Avg	Tst Temp	Tst Dir	Tst Siz (mm)	BDWTT Temp %Shr			
E1G1B4	D03	0.382 (DISCRT)	C 63	81		38		T		151 187 161 165		-50F	L	7.5				
W1H718	C07	0.381 (DISCRT)	C 66	78		36		T		91 84 104 93 134 134 135 134		-50F -50F	T L	7.5 7.5				
Heat																		
Id	C	Mn	P	S	Si	Total	Sol Al	Cu	Ni	Cr	Mo	V	Ti	B	N	Ca	MP	ORGN
E1G1B4	.12	1.38	.012	.001	.33	.023	.023	.20	.10	.11	.06	.004	.002	.0003	.0072	.0026	.41	USA
W1H718	.12	1.37	.010	.001	.35	.026	.025	.19	.09	.08	.04	.004	.002	.0001	.0077	.0035	.39	USA

KILLED STEEL
MERCURY IS NOT A METALLURGICAL COMPONENT OF THE STEEL AND NO MERCURY WAS INTENTIONALLY ADDED DURING THE MANUFACTURE OF THIS PRODUCT.
PLATES LISTED ON THIS TEST CERTIFICATE PASSED ULTRASONIC INSPECTION TO ASTM A578 (17) / ASME SA578 (19)
LEVEL C, S1- 100% SCAN.
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.
MEETS THE REQUIREMENTS OF ASTM A537(20)/ASME SA537(21) CLASS 1 MODIFIED TO 0.04% MAX CB
KILLED STEEL, PRODUCED TO A FINE GRAIN PRACTICE
CEV (IIV) = C + MN/5 + (CR+MO+V)/5 + (NI+CU)/15
CEV (PCM) = C + (MN+CU+CR)/20 + SI/30 + NI/60 + MO/15 + V/10 + 5*B
CEV ANALYSIS - HEAT ID: E1G1B4 PCM .23
CEV ANALYSIS - HEAT ID: W1H718 PCM .22
MTR EN 10204:2004 INSPECTION CERTIFICATE 3.2 COMPLIANT
100% MELTED, POURED, AND ROLLED IN THE USA
NO WELD REPAIR HAS BEEN PERFORMED ON THIS MATERIAL.
NORMALIZED PLATES. HEATED AT 1665F FOR 19 MINUTES.
TEST COUPONS TAKEN FROM HEAT TREATED PLATE.

PRODUCTS SHIPPED:
E1G1B4 D03 40067808 PCES: 1, LBS: 6126 DPLT: A02
E1G1B4 D03 40067804 PCES: 1, LBS: 6126 DPLT: A03
W1H718 C07 40069939 PCES: 1, LBS: 6126 DPLT: B02
W1H718 C07 40069938 PCES: 1, LBS: 6126 DPLT: B01
W1H718 C07 40069937 PCES: 1, LBS: 6126 DPLT: B03



Emil G. Bautista Jr.
4961243 30-Sept-2021

Colt Beck

(P)	Cust Part #:	WE HEREBY CERTIFY THAT THIS MATERIAL WAS TESTED IN ACCORDANCE WITH, AND MEETS THE REQUIREMENTS OF, THE APPROPRIATE SPECIFICATION	Colt Beck	09/22/2021
		PRODUCT METALLURGIST		

