



Test Certificate

Form TC1: Revision 3: Date 7 Feb 2018

13609 Industrial Road, Houston, TX 77015, US

Customer:	Customer P.O.No.:V15445-50800	Mill Order No. 41-553036-03	Shipping Manifest: HT120057
	Product Description: CSA G40.21(2013)44W/300W / ASTM A36(14) A709(17)36/ASME SA36(17) MN .80-1.20		Ship Date: 30 Nov 18 Cert Date: 30 Nov18
	Size: 0.250 X 96.00 X 240.0 (IN)		Cert No: 031212532 (Page 1 of 1)

Tested Pieces:				Tensiles:					Charpy Impact Tests							BDWTT Tmp %Shr				
Heat Id	Piece Id	Piece Dimensions	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 Tmp	Tst Dir	Tst Siz (mm)
W8H637	0561	0.250 (T.L.C)	L	50	72		32	T												
			C	50	72		32	T												
W8H637	0564	0.250 (T.L.C)	L	53	75		32	T												
			C	52	73		30	T												
W8H638	0549	0.250 (T.L.C)	L	52	74		30	T												
			C	53	75		30	T												
W8H638	0551	0.250 (T.L.C)	L	52	74		31	T												
			C	52	74		34	T												

Heat Id	Chemical Analysis																ORGN
	C	Mn	P	S	Si	Tot Al	Sol Al	Cu	Ni	Cr	Mo	Cb	V	Ti	B	N	
W8H637	.18	.84	.022	.002	.06	.041	.038	.37	.18	.18	.05	.001	.004	.016	.0001	.0073	USA
W8H638	.18	.83	.018	.001	.05	.042	.040	.34	.17	.16	.04	.001	.004	.015	.0001	.0072	USA

KILLED STEEL
 MERCURY IS NOT A METALLURGICAL COMPONENT OF THE STEEL AND NO MERCURY WAS INTENTIONALLY ADDED DURING THE MANUFACTURE OF THIS PRODUCT.
 ! 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.
 KILLED STEEL, PRODUCED TO A FINE GRAIN PRACTICE
 MTR EN 10204:2004 INSPECTION CERTIFICATE 3.1 COMPLIANT
 100% MELTED AND MANUFACTURED IN THE USA.
 MATERIAL MARKED BELOW WITH AN ASTERISK IS PRODUCED FROM COIL
 PRODUCTS SHIPPED:
 * W8H638 0548 PCES: 12, LBS: 19608 * W8H637 0562 PCES: 12, LBS: 19608

(P) Cust Part #: 025096240A36	WE HEREBY CERTIFY THAT THIS MATERIAL WAS TESTED IN ACCORDANCE WITH, AND MEETS THE REQUIREMENTS OF, THE APPROPRIATE SPECIFICATION	<u>Justin Ward</u> SENIOR METALLURGIST - PRODUCT
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