

DATE	8/06/12
INVOICE NO.	499404
BILL OF LADING	76814
CUSTOMER NO.	5446
CUSTOMER P.O.	600441

NUCOR-YAMATO STEEL CO.
P.O. BOX 1228 • BLYTHEVILLE, AR 72316

CERTIFIED MILL TEST REPORT

100% MELTED AND MANUFACTURED IN U.S.A.
All shapes produced by Nucor-Yamato Steel are cast and rolled to a fully killed and fine grain practice.

S
H
I
P
T
O

 FB C/O JORGE MIGUEL MEDRANO SANCHEZ,
 HIDALGO 3530 PAT 4100
 FINAL: SAN LUIS POTOSI, SLP MX
 NUEVO LAREDO, TM 88000

S
P
E
C
I
F
I
C
A
T
I
O
N
S

ASTM A992/A992M-11 A572/A572M GR50-07
 ASTM A709/A709M-11 GR50 (345)
 ASTM A709/A709M-11 GR50S (345S)
 ASTM A6/A6M-11

47361

S
O
L
D
T
O

 FERRE BARNIEDO, SA DE CV
 AV REVOLUCION #81 COL SAN CRISTOBAL
 ECATEPEC DE MORELOS
 EDO, MEXICO CP 55000

ITEM #	ITEM DESCRIPTION	QTY	HEAT #	MECHANICAL PROPERTIES						CHEMICAL PROPERTIES												
				YIELD TO TENSILE RATIO	YIELD STRENGTH	TENSILE STRENGTH	ELONG	CHARPY IMPACT		C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb	CE	
					PSI	PSI		%	TEMP °F													IMPACT ENERGY FT-LBS
					MPa	MPa		%	°C													JOULES
1	W36 -150.0 40' W920 x223.0 12.192 M	3	390209	.76	54000	71000	29				.08	1.19	.014	.024	.27	.26	.11	.08	.03	.00	.021	.32
				.77	55000	71000	29												.01	.17		
2	W36 -150.0 40' W920 x223.0 12.192 M	10	390212	.76	53000	70000	29				.08	1.14	.013	.028	.24	.30	.10	.08	.03	.00	.020	.32
				.77	53000	69000	29												.01	.17		
3	W36 -150.0 40' W920 x223.0 12.192 M	2	390215	.75	52000	69000	29				.07	1.10	.013	.024	.21	.26	.11	.09	.03	.00	.020	.29
				.77	53000	69000	28												.01	.16		
4	W36 -150.0 40' W920 x223.0 12.192 M	1	390216	.78	54000	69000	25				.07	1.10	.017	.020	.24	.25	.10	.12	.03	.00	.020	.30
				.75	51000	68000	29												.01	.16		
5	W36 -150.0 40' W920 x223.0 12.192 M	8	390219	.79	55000	70000	29				.07	1.11	.023	.018	.22	.26	.10	.16	.03	.00	.022	.32
				.77	53000	69000	27												.01	.16		
6	W36 -150.0 40' 20 x223.0 12.192 M	4	390223	.78	53000	68000	28				.07	1.11	.020	.023	.22	.28	.09	.12	.03	.01	.020	.31
				.79	55000	70000	29												.01	.16		

ESTE ORIGINAL ES COPIA DE NUESTROS ARCHIVOS.
 FERRE BARNIEDO, S.A. DE C.V.
 ESTE ORIGINAL DE NUESTROS ARCHIVOS.
 LA REMISION NO. 58-36-10-00
 ventas@ferrebarniedo.com.mx

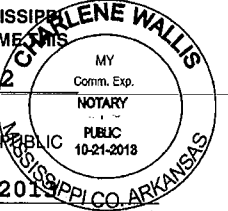
PCm = C + Si + Mn + Cu + Ni + Cr + V + S + B = Approx. 0005 CARBON EQUIVALENT: CE = CE(IW) = C + Mn/6 + (Cr+Mo+V)/5 + (Ni+Cu)/15
 Corrosion Index: CI = 26.01(%Cu)+3.88(%Ni)+1.20(%Cr)+1.49(%S)+17.28(%P)-7.29(%Co)(%Ni)-9.10(%Ni)(%P)-33.39(%Cu)²
 Mercury has not been used in the direct manufacturing of this material.

ELONGATION BASED ON 8.00 INCH GAUGE LENGTH

I hereby certify that the contents of this report are accurate and correct. All test results and operations performed by this material manufacturer are in compliance with the requirements of the material specifications listed in the Specifications Block above.

Gay Lemell
 QUALITY ASSURANCE

STATE OF ARKANSAS COUNTY OF MISSISSIPPI
 SWORN TO AND SUBSCRIBED BEFORE ME THIS 6 Day of 08/12
 Charlene Wallis NOTARY PUBLIC
 MY COMMISSION EXPIRES 10/21/2018



CUSTOMER COPY