

DATE	10/01/08
INVOICE NO.	264618
BILL OF LADING	932243
CUSTOMER NO.	5446
CUSTOMER P.O.	12862

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
FERRE C/O LOGISTICA INTEGRAL EN
ESPUELA O ESCAPE #06-717-94
FINAL: SAN LUIS POTOSI, SLP MX
LAREDO, TX

S P E C I F I C A T I O N S
ASTM A992/A992M-06a A572/A572M GR50-06
ASTM A709/A709M-07 GR50 (345)
ASTM A709/A709M-07 GR50S (345S)
ASTM A6/A6M-07
39065

S O L D T O
FERRE BARNIEDO, S.A. DE C.V.
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		° F	FT-LBS													
					MPa	MPa		° C	JOULES													
36	-231.0	2	326590	.78	57000	73000	28				.07	1.20	.019	.026	.24	.29	.10	.14	.03	.00	.025	.33
45'	W920 x343.7			.78	57000	73000	29												.01	.16		
2	W36 -231.0	2	326605	.76	57000	75000	28				.08	1.21	.018	.025	.25	.35	.10	.11	.03	.00	.024	.34
45'	W920 x343.7			.76	56000	74000	29												.01	.18		
3	W36 -231.0	1	326608	.76	55000	72000	30				.08	1.20	.016	.022	.24	.28	.11	.13	.03	.00	.022	.34
45'	W920 x343.7			.79	58000	73000	30												.01	.17		
4	W36 -231.0	3	326592	.76	55000	72000	28				.07	1.22	.018	.023	.22	.36	.10	.10	.03	.00	.026	.33
50'	W920 x343.7			.79	58000	73000	28												.01	.17		
5	W36 -231.0	1	326594	.80	59000	74000	28				.08	1.21	.015	.021	.26	.34	.10	.08	.03	.00	.024	.33
50'	W920 x343.7			.78	59000	76000	27												.01	.17		
6	W36 -231.0	1	326605	.76	57000	75000	28				.08	1.21	.018	.023	.25	.35	.10	.10	.03	.00	.024	.34
50'	W920 x343.7			.76	56000	74000	29												.01	.18		
7	W36 -231.0	2	326606	.74	54000	74000	29				.08	1.20	.017	.020	.24	.30	.11	.11	.03	.00	.023	.34
50'	W920 x343.7			.77	56000	73000	29												.01	.18		
8	W36 -231.0	1	326611	.76	57000	75000	29				.08	1.22	.016	.022	.24	.30	.10	.10	.03	.00	.024	.34
50'	W920 x343.7			.76	57000	75000	29												.01	.18		
9	W36 -231.0	1	326612	.74	56000	73000	30				.07	1.20	.016	.020	.22	.29	.10	.10	.03	.00	.022	.33
50'	W920 x343.7			.74	56000	74000	29												.01	.16		
15.240 M					386	510	30															
15.240 M					393	510	29															

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

Pen=C+Si+Mn+Cu+Ni+Cr+Mo+V+5P+5S-Approx.0005
30 20 20 60 20 15 10
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(%Ni)+9.10(%Mn)+33.39(%Cu)²

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 Linnell

QUALITY ASSURANCE

CUSTOMER COPY

STATE OF ARKANSAS COUNTY OF MISSISSIPPI
SWORN TO AND SUBSCRIBED BEFORE ME THIS

1 Day of 10/08

Charlene Wallis

NOTARY PUBLIC

MY COMMISSION EXPIRES 10/21/2013

