

**NUCOR-YAMATO STEEL CO.**

P O BOX 1228  
BLYTHEVILLE AR 72316

DATE  
11/05/06

**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.

**SOLD TO**

FERRE BARRIEDO, S.A. DE C.V.  
AV REVOLUCION #81 COL SAN CRISTOBAL  
ECATEPEC DE MORELOS  
EDO, MEXICO CP 55000

**SHIP TO**

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

INVOICE  
88928

CUSTOMER NO.  
5446

BILL OF LADING  
813783

CUSTOMER P.O.  
63925

**1012**

2. SPECIFICATIONS GRADE: ASTM A992/A992M-06a A572/A572M GR50-04 ASTM A709/A709M-03a GR50 (345) ASTM A709/A709M-03a GR50S (345S) ASTM A6/A6M-05a

ITEM	ITEM DESCRIPTION	QTY	HEAT #	MECHANICAL PROPERTIES								CHEMICAL PROPERTIES										
				YIELD TO TENSILE MPa	YIELD STRENGTH MPa	TENSILE STRENGTH MPa	ELONG %	CHARPY IMPACT		C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb	CE	
								TEMP F	IMPACT ENERGY FT-LBS Joules													Sn
1	W14 - 26.0 40' ✓ W360 x 39.0 12.192 M	2	285128	.81	60000	74000	25				.05	.95	.012	.022	.25	.28	.13	.11	.04	.00	.018	.27
2	W14 - 26.0 40' ✓ W360 x 39.0 12.192 M	12	285129	.82	60000	73000	24				.05	.93	.012	.028	.28	.31	.14	.10	.04	.00	.016	.27
3	W14 - 26.0 40' ✓ W360 x 39.0 12.192 M	7	285135	.82	61000	74000	23				.08	.90	.009	.034	.24	.26	.12	.10	.03	.00	.016	.29
4	W14 - 26.0 40' ✓ W360 x 39.0 12.192 M	1	285137	.81	59000	73000	25				.05	.91	.009	.033	.27	.26	.12	.10	.03	.00	.017	.26
5	W14 - 26.0 40' ✓ W360 x 39.0 12.192 M	6	285139	.81	60000	74000	25				.06	.94	.011	.027	.26	.26	.12	.10	.03	.00	.016	.28
6	W14 - 26.0 40' ✓ W360 x 39.0 12.192 M	7	285157	.84	59000	70000	25				.08	.99	.014	.025	.27	.24	.12	.15	.03	.00	.018	.31
7	W14 - 26.0 45' ✓ W360 x 39.0 13.746 M	5	269113	.82	58000	71000	24				.07	.91	.013	.036	.27	.36	.10	.09	.03	.00	.021	.27
8	W14 - 26.0 45' ✓ W360 x 39.0 13.746 M	9	269116	.82	61000	74000	25				.07	.91	.017	.037	.25	.34	.11	.11	.03	.00	.016	.28

ESTE CERTIFICADO ES COPIA FIEL  
DEL ORIGINAL DE NUESTROS ARCHIVOS  
AMPARA LA REMISION No. 7172-01

ELONGATION BASED ON 8.00 INCH GAUGE LENGTH CARBON EQUIVALENT CE = C + Mn/6 + (Cr+Mo+V) / 5 + (Ni+Cu) / 15  
Pcm=C+Si/30+Mn/20+Cu/20+Ni/60+Cr/20+Mo/15+V/10+5B/10000  
Corrosion Index: CI=26.01(%Cu)+3.88(%Ni)+1.2(%Cr)+1.49(%Si)+17.28(%P)-7.29(%Cu)(%Ni)-9.10(%Ni)(%P)-33.39(%Cu)<sup>2</sup>

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, and when designated by the purchaser, meet the applicable specifications.

STATE OF ARKANSAS  
COUNTY OF MISSISSIPPI  
SWORN TO AND SUBSCRIBED BEFORE ME THIS  
Day of \_\_\_\_\_

GARY PENNELL  
QUALITY ASSURANCE

NOTARY PUBLIC