

**NUCOR-YAMATO STEEL CO.**

P O BOX 1228  
 BLYTHEVILLE AR 72316

DATE  
 7/14/06

**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**

**SHIP TO**

FERRE BARNIEDO, S.A. DE C.V.  
 AV REVOLUCION NO 81  
 SAN CRISTOBAL ECATEPEC  
 EDO DE MEXICO 55000

FERRE BARNIEDO C/O IAF FORWARDING  
 1207 UMIROYAL DRIVE  
 FINAL: SAN LUIS POTOSI, SLP MX  
 LAREDO, TX

INVOICE  
 59295  
 BILL OF LADING  
 794498

CUSTOMER NO.  
 5446  
 CUSTOMER P.O.  
 FERRE 5/9/06

**SPECIFICATIONS GRADE:**  
 ASTM A709/A709M-03a GR50s (345S)      ASTM A992/A992M-04a A572/A572M GR50-04      ASTM A709/A709M-03a GR50 (345)  
 ASTM A6/A6M-05a

31807

ITEM	ITEM DESCRIPTION	QTY	HEAT #	MECHANICAL PROPERTIES								CHEMICAL PROPERTIES												
				YIELD STRENGTH TENSILE MPA	YIELD STRENGTH TENSILE KSI	TENSILE STRENGTH MPA	TENSILE STRENGTH KSI	ELONG %	TEMP F	IMPACT ENERGY FT-LBS JOULES	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb	CE		
																							Sn	Pcm
1	W30 - 99.0 40' IP301147I W760 x147.0 12.192 M	4	277568	.77	56000	73000	24						.081	.30	.021	.013	.22	.29	.10	.13	.03	.05	.002	.37
2	W30 - 99.0 40' = W760 x147.0 12.192 M	2	277570	.79	58000	73000	25						.071	.32	.017	.00	.23	.31	.12	.11	.03	.05	.001	.36
3	W30 - 99.0 40' = W760 x147.0 12.192 M	4	277572	.80	59000	74000	26						.071	.30	.020	.018	.24	.32	.09	.13	.03	.05	.002	.36
4	W30 - 99.0 40' = W760 x147.0 12.192 M	8	277574	.80	61000	76000	25						.081	.33	.019	.020	.25	.33	.10	.12	.03	.05	.001	.37
5	W30 - 99.0 40' = W760 x147.0 12.192 M	8	277576	.79	61000	77000	25						.081	.31	.020	.018	.26	.32	.10	.13	.03	.05	.002	.37
6	W30 - 99.0 40' = W760 x147.0 12.192 M	1	277578	.78	59000	76000	25						.071	.35	.019	.022	.23	.30	.10	.16	.03	.05	.002	.38
7	W30 - 99.0 40' = W760 x147.0 12.192 M	2	277580	.79	58000	73000	26						.071	.31	.021	.020	.23	.28	.09	.15	.03	.05	.002	.36
8	W30 - 99.0 40' = W760 x147.0 12.192 M	2	277582	.80	60000	75000	24						.071	.30	.018	.019	.23	.28	.10	.11	.03	.05	.001	.36

FERRE BARNIEDO, S.A. DE C.V.  
 ESTE ORIGINAL DE NUESTROS ARCHIVOS  
 DEL C.A.P.A. REMISION NO. 383618-00  
 TEL. 383618-00  
 ventas@ferrebarniedo.com.mx

ELONGATION BASED ON 8.00 INCH GAUGE LENGTH  
 Pcm=C+Mn/30+Ms/20+Cu/20+Ni/60+Cr/20+Mo/15+V/10+5B/1000  
 Corrosion Index: CI=26.01(%Cu)+3.88(%Ni)+1.49(%Cr)+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 accordance with the requirements of the material specifications, and when designated by the purchaser, meet the applicable specifications.

GARY PENNELL  
 QUALITY ASSURANCE

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

