

DATE	6/09/08
INVOICE NO.	234656
BILL OF LADING	912544
CUSTOMER NO.	8446
CUSTOMER P.O.	2992

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 T/L 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

38124

S O L D
FERRE BARNIEDO, S.A. DE C.V.
AV REVOLUCION #81 COL SAN CRISTOBAL
ECATEPEC DE MORELOS
EDO, MEXICO
CE P 1000

1141509040I
1141509940I

ITEM #	ITEM DESCRIPTION	QTY	HEAT #	MECHANICAL PROPERTIES					CHEMICAL PROPERTIES												
				YIELD TO TENSILE RATIO	YIELD STRENGTH PSI MPa	TENSILE STRENGTH PSI MPa	ELONG %	CHARPY IMPACT TEMP °F °C	IMPACT ENERGY FT-LBS Joules	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb	CE	
1	W14 - 90.0 40'	1	318873	.79	61000	78000	28			.08	1.37	.014	.020	.27	.28	.12	.08	.03	.06	.002	.37
	W360 x134.0 12.192 M			.78	61000	78000	28											.01	.18		
2	W14 - 99.0 40'	3	319218	.80	60000	75000	25			.08	1.35	.018	.020	.28	.27	.11	.18	.04	.05	.002	.39
	W360 x147.0 12.192 M			.77	58000	75000	24											.01	.19		
3	W14 - 99.0 40'	2	319232	.76	56000	74000	25			.08	1.38	.016	.028	.25	.27	.11	.13	.04	.05	.003	.38
	W360 x147.0 12.192 M			.77	57000	74000	25											.01	.19		
4	W14 - 99.0 40'	3	319234	.76	58000	76000	25			.08	1.35	.014	.017	.25	.28	.13	.11	.04	.05	.002	.38
	W360 x147.0 12.192 M			.78	59000	76000	25											.01	.19		
5	W14 - 99.0 40'	2	319246	.78	60000	77000	24			.08	1.35	.019	.016	.24	.26	.11	.13	.04	.05	.002	.37
	W360 x147.0 12.192 M			.77	59000	77000	25											.01	.19		
6	W14 - 99.0 40'	7	319248	.78	59000	76000	24			.07	1.36	.015	.020	.33	.27	.13	.08	.04	.05	.002	.36
	W360 x147.0 12.192 M			.77	58000	75000	25											.01	.17		
7	W14 - 99.0 40'	6	319250	.78	59000	76000	24			.08	1.38	.016	.023	.22	.28	.11	.10	.03	.05	.002	.38
	W360 x147.0 12.192 M			.77	58000	75000	25											.01	.19		
8	W14 - 99.0 40'	7	319252	.79	60000	76000	24			.08	1.36	.023	.021	.26	.29	.10	.13	.03	.05	.002	.38
	W360 x147.0 12.192 M			.78	59000	76000	24											.01	.19		
9	W14 - 99.0 40'	3	319253	.78	61000	78000	22			1.37	.021	.022	.023	.31	.31	.11	.14	.03	.06	.002	.38
	W360 x147.0 12.192 M			.80	60000	75000	24											.02	.19		

ORIGINAL
 CERTIFICADO
 DE
 NUESTROS
 ARCHIVOS
 FERRE BARNIEDO S.A. DE C.V.
 NO. 10-00
 www.ferrebarniedo.com.mx

Carbon Equivalent: CE = C + Mn/6 + (Cr+Mo+V)/5 + (Ni+Cu)/15
 Corrosion Index: CI = 26.01(%Cu) + 3.28(%Ni) + 1.20(%Cr) + 1.48(%Sb) + 17.28(%P) + 7.29(%Co) + 9.10(%Mn) + 9.10(%P) + 33.38(%Cu)

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.

Doug Linnell

QUALITY ASSURANCE

CUSTOMER COPY

STATE OF ARKANSAS COUNTY OF MISSISSIPPI
 SWORN TO AND SUBSCRIBED BEFORE ME THIS
 9 Day of 06/08

Charlene Wallis NOTARY PUBLIC

MY COMMISSION EXPIRES 10/21/2011

