

NUCOR STEEL - BERKELEY  
 P.O. Box 2259  
 Mt. Pleasant, S.C. 29464  
 Phone: (843) 336-6000

CERTIFIED MILL TEST REPORT

41963 - 41964

9/18/11 3:36:24  
 100% MELTED AND MANUFACTURED IN THE USA  
 All beams produced by Nucor-Berkeley are cast and rolled to a fully killed and fine grain practice.

Mercury has not been used in the direct manufacturing of this material.

Sold To: FORIACERO SA DE CV  
 BLVD CARLOS SALINAS DE KM 8.8  
 ROLE 11 - LAREDO  
 APODACA, NL 66600

Ship To: ESTACION PANTACO ESCAPE  
 04-801-94  
 INDUSTRIAL VALLEJO  
 MEXICO, DF 02300

Customer #: 1872 - 5  
 Customer PO: 4500081728  
 B.O.L. #: 903400

SPECIFICATIONS: Tested in accordance with ASTM specification A6-11/A6M-11 and A370. Quality Manual Rev #24.  
 AASHTO : M270-50-05  
 ASTM : A992-11/A36-08/A529-05-50/A572-07-50/A709-345M/A70911 50S

Description	Heat# Grade(s) Test	Yield/ Tensile Ratio	Yield (PSI) (MPa)	Tensile (PSI) (MPa)	Elong %	C	Mn	P	S	Si	Cu	Ni	CE1
						Cr XXXXXX	Mo Mo Ti	Sa S XXXXXX	B B XXXXXX	V V N	Wb Wb XXXXXX	CI CI	CE2 Pcm
WBX10	2110491	.83	60500	73000	23.78	.06	.86	.012	.034	.20	.25	.08	.25
040' 00.00'	A992-11		417	503		.06	.01	.0117	.0003	.004	.015	.08	.2872
W200X15.0		.82	60300	73100	25.25		.001			.0081		5.24	.1364
012.1920m			416	504								InvH:	0
WBX13	1110393	.83	57500	69300	24.59	.06	.81	.008	.032	.19	.19	.05	.23
040' 00.00'	A992-11		396	478		.04	.01	.0088	.0002	.003	.026	.05	.2704
W200X19.3		.83	57500	69200	24.46		.000			.0063		4.38	.1313
012.1920m			396	477								InvH:	0
WBX13	1110391	.83	57700	69700	24.99	.06	.80	.007	.031	.20	.18	.05	.23
040' 00.00'	A992-11		398	481		.04	.01	.0086	.0002	.003	.027	.05	.2718
W200X19.3		.83	58300	70200	25.94		.000			.0063		4.30	.1309
012.1920m			402	484								InvH:	0
WBX15	1110371	.84	58600	69900	25.35	.06	.81	.008	.032	.23	.20	.06	.23
040' 00.00'	A992-11		404	482		.05	.01	.0080	.0002	.003	.030	.06	.2787
W200X22.5		.83	58000	69500	25.53		.000			.0062		4.66	.1309
012.1920m			400	479								InvH:	0

Elongation based on 8' (20.32cm) gauge length. 'No Weld Repair' was performed. Hg free and no contact with Hg during manufacture.  
 CI = 26.01Cu+3.88Ni+1.20Cr+1.49Si+17.28P-(7.29Cu\*Ni)-(9.10Ni\*P)-33.39(Cu\*Cu) CEI = 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 CE2 = C+((Mn+Si)/6)+((Cr+Mo+V+Cb)/5)+((Ni+Cu)/15)

I hereby certify that the contents of this report are accurate and correct. All test results and operations performed by the material manufacturer are in compliance with material specifications, and when designated by the Purchaser, meet applicable specifications.

Bruce A. Work  
 Metallurgist

