

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

CERTIFIED MILL TEST REPORT

3/04/17 15:50:32  
 100% EAF 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: ACEROMEX SA DE CV  
 CARRETERA MONTERREY LAREDO KM  
 MONTERREY, NL 65550

Ship To: PORT OF TAMPICO  
 AUTOTEK MEXICO S.A. DE C.V.  
 CPT MUELLES FISCALES, IM  
 TAMPICO, IM 89000

Customer #: 3962 - 2  
 Customer PO: 4500175490  
 B.o.I. #: 1254902  
 MOS: B

SPECIFICATIONS: Tested in accordance with ASTM specification A6/A6M-16a and A370. Quality Manual Rev #10 (12-13-16).

AASHTO : m270-345M270-50-10  
 ASME : SA-36 13  
 ASTM : A992-11(15)/A36-14/A529-14-50/A572 5015/A709-5016a  
 CSA : G40.21-50w/G40.2150WM/G402150WMT

Description Part #	Heat# Grade(s) Test/Heat JW	Yield/ Tensile Ratio	Yield (PSI) (MPa)	Tensile (PSI) (MPa)	Elong %	C Cr *****	Mn Mo Ti	P Sn *****	S B *****	Si V N	Cu Nb *****	Ni ***** CI	CE1	CE2	Pcm
													.26	.3029	.1387
C12X20.7 040' 00.00" C310X30.8 012.1920m	2701363 A992-11(15)	.83	59000 407	71400 492	25.05	.07 .03	1.02 .01	.005 .0088	.019 .0003	.22 .004	.16 .030	.04	.26	.3029	.1387
			59400 410	71500 493	25.89		.001		.0043			3.83	Inv#:	0	
C12X30 040' 00.00" C310X45 012.1920m	2701322 A992-11(15)	.81	56400 389	69500 479	23.53	.07 .04	1.03 .01	.007 .0057	.021 .0003	.24 .005	.10 .029	.04	.26	.3089	.1415
			56200 387	69400 479	24.11		.001		.0061			2.80	Inv#:	0	
C15x33.9 040' 00.00" C381x50.44 012.1920m	2701571 A992-11(15)	.82	55100 380	67600 466	25.51	.07 .03	1.03 .01	.005 .0052	.020 .0003	.25 .004	.12 .029	.03	.26	.3053	.1397
			54800 378	67900 468	26.33		.001		.0063			3.13	Inv#:	0	
C15x33.9 040' 00.00" C381x50.44 012.1920m	2701573 A992-11(15)	.80	55100 380	69100 476	25.01	.07 .03	1.01 .01	.006 .0045	.021 .0002	.28 .004	.11 .030	.03	.25	.3038	.1351
			54300 374	67200 463	26.10		.001		.0058			3.12	Inv#:	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) CE1= C+(Mn/5)+((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  
 Quality Control

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TAMPICO, IM 89000

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MOS: B

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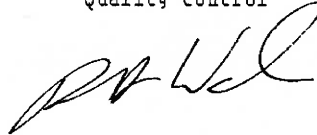
AASHTO : m270-345M270-50-10  
ASME : SA-36 13  
ASTM : A992-11(15)/A36-14/A529-14-50/A572 5015/A709-5016a  
CSA : G40.21-50w/G40.2150WM/G402150WMT

Description Part #	Heat# Grade(s) Test/Heat JW	Yield/ Tensile Ratio	Yield (PSI) (MPa)	Tensile (PSI) (MPa)	Elong %	C Cr *****	Mn Mo Ti	P Sn *****	S B *****	Si V N	Cu Nb *****	Ni ***** CI	CE1	CE2
													Pcm	Pcm
W10x22 040' 00.00' W250X32.7 012.1920m	2700896 A992-11(15)	.83	56800 392	68400 472	26.08	.07 .06	.83 .01	.009 .0082	.025 .0002	.18 .003	.17 .026	.04	.23 .2683	.1282
			385	471	24 Pc(s)		21,120 lbs					4.09	Inv#:	0
W10x22 040' 00.00' W250X32.7 012.1920m	2700891 A992-11(15)	.83	56100 387	67900 468	27.80	.07 .06	.82 .01	.010 .0110	.025 .0002	.19 .004	.25 .027	.07	.24 .2771	.1316
			387	469	170 Pc(s)		149,600 lbs					5.09	Inv#:	0
W10x22 040' 00.00' W250X32.7 012.1920m	2700890 A992-11(15)	.82	56200 387	68200 470	26.70	.07 .06	.81 .01	.009 .0093	.022 .0002	.20 .003	.19 .026	.05	.23 .2694	.1282
			389	472	180 Pc(s)		156,400 lbs					4.37	Inv#:	0
W10x22 040' 00.00' W250X32.7 012.1920m	2700888 A992-11(15)	.83	56200 387	68000 469	26.64	.07 .06	.82 .01	.010 .0076	.026 .0003	.21 .004	.13 .025	.04	.23 .2671	.1257
			381	464	28 Pc(s)		24,640 lbs					3.56	Inv#:	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) CE1= C+((Mn+Si)/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)

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Quality Control



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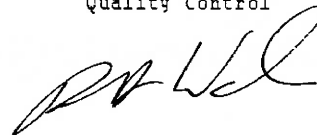
RASHID : m270-345M270-50-10  
ASME : SA-36 13  
ASTM : A992-11(15)/A36-14/A529-14-50/A572 5015/A709-5016a  
CSA : G40.21-50w/G40.2150WM/G402150WMI

Description Part #	Heat# Grade(s) Test/Heat JW	Yield/ Tensile Ratio	Yield (PSI) (MPa)	Tensile (PSI) (MPa)	Elong %	C Cr *****	Mn Mo Ti	P Sn *****	S B *****	Si V N	Cu Nb *****	Ni ***** CI	CE1	CE2
													Pcm	Pcm
W12x14 040' 00.00' W310X21.0 012.1920m	2700716 A992-11(15)	.83	55300 381	66800 461	26.30	.07 .03	.86 .01	.005 .0055	.017 .0003	.21 .004	.09 .016	.03	.23 .2651	.1268
			383	461	270 Pc(s)		151,200 lbs					Inv#:	0	
W12x14 040' 00.00' W310X21.0 012.1920m	2700612 A992-11(15)	.83	55200 381	66500 459	26.43	.07 .03	.82 .01	.004 .0079	.019 .0003	.23 .004	.14 .015	.04	.23 .2672	.1281
			381	460	1 Pc(s)		560 lbs					Inv#:	0	
W12x14 040' 00.00' W310X21.0 012.1920m	2700615 A992-11(15)	.83	55900 385	67200 463	26.01	.07 .04	.81 .01	.006 .0070	.023 .0001	.19 .003	.13 .014	.05	.22 .2567	.1225
			378	459	1 Pc(s)		560 lbs					Inv#:	0	
W12x14 040' 00.00' W310X21.0 012.1920m	2700620 A992-11(15)	.82	54800 378	66700 460	26.30	.07 .03	.85 .01	.006 .0074	.020 .0003	.16 .004	.13 .014	.04	.23 .2601	.1288
			363	452	2 Pc(s)		1,120 lbs					Inv#:	0	

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CI = 26.01Cu+3.88Ni+1.20Cr+1.49Si+17.28P-(7.29Cu\*Ni)-(9.10Ni\*P)-33.39(Cu\*Cu) CE1= 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)

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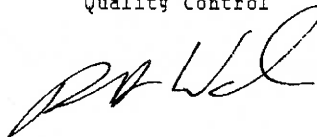
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Description Part #	Heat# Grade(s) Test/Heat JW	Yield/ Tensile Ratio	Yield (PSI) (MPa)	Tensile (PSI) (MPa)	Elong %	C Cr *****	Mn Mo Ti	P Sn *****	S B *****	Si V N	Cu Nb *****	Ni ***** CI	CE1 CE2 Pcm
W12x14 040' 00.00' W310X21.0 012.1920m	2700699 A992-11(15)	.84	55900 385	66800 461	26.80	.07 .03	.84 .01	.005 .0049	.016 .0002	.16 .004	.07 .014	.03	.22 .2522 .1217
			375	454	358	Pc(s) 200,480 lbs						Inv#:	0
W12x35 040' 00.00' W310X52 012.1920m	1700583 A992-11(15)	.80	56100 387	69900 482	25.63	.07 .04	1.04 .01	.007 .0059	.021 .0003	.28 .004	.08 .030	.03	.26 .3106 .1365
			377	483	38	Pc(s) 53,200 lbs						Inv#:	0
W12x35 040' 00.00' W310X52 012.1920m	1700579 A992-11(15)	.77	54400 375	70300 485	23.36	.07 .04	1.02 .01	.007 .0049	.031 .0002	.27 .004	.08 .030	.03	.25 .3040 .1342
			376	474	88	Pc(s) 123,200 lbs						Inv#:	0
W14x22 040' 00.00' W360X32.9 012.1920m	2617022 A992-11(15)	.84	57700 398	68500 472	27.20	.07 .03	.86 .00	.008 .0051	.021 .0002	.22 .003	.09 .028	.03	.23 .2684 .1255
			396	472	36	Pc(s) 31,680 lbs						Inv#:	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)  
CE1 = 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)

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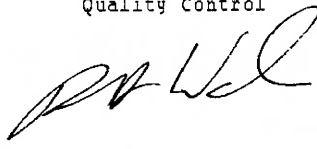
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Description Part #	Heat# Grade(s) Test/Heat JW	Yield/ Tensile Ratio	Yield (PSI)	Tensile (PSI)	Elong %	C	Mn	P	S	Si	Cu	Ni	CE1
						Cr *****	Mo Ti	Sn *****	B *****	N	Nb *****	CI *****	CE2 Pcm
W14x22 040' 00.00' W360x32.9 012.1920m	1617019 A992-11(15)	.84	57200 394	68100 470	26.98	.07 .04	.89 .00	.008 .0046	.025 .0002	.24 .004	.08 .032	.03	.24 .2822 .1314
			405	480	36 Pc(s)	31,680 lbs						Inv#:	0
W14x22 040' 00.00' W360x32.9 012.1920m	2617016 A992-11(15)	.84	58400 403	69400 479	28.13	.07 .03	.85 .00	.005 .0062	.019 .0002	.24 .004	.09 .028	.03	.23 .2713 .1253
			404	479	145 Pc(s)	127,600 lbs						Inv#:	0
W14x22 040' 00.00' W360x32.9 012.1920m	2617014 A992-11(15)	.84	58200 401	69200 477	26.83	.07 .04	.86 .00	.007 .0060	.019 .0002	.24 .004	.09 .027	.03	.23 .2742 .1267
			397	477	151 Pc(s)	132,880 lbs						Inv#:	0
W14x22 040' 00.00' W360x32.9 012.1920m	2617746 A992-11(15)	.84	57500 396	68600 473	27.73	.07 .05	.89 .01	.007 .0092	.020 .0003	.16 .004	.19 .030	.05	.24 .2750 .1303
			395	474	1 Pc(s)	880 lbs						Inv#:	0

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 $CI = 26.01Cu + 3.88Ni + 1.20Cr + 1.49Si + 17.28P - (7.29Cu \times Ni) - (9.10Ni \times P) - 33.39(Cu \times Cu)$   $CE1 = C + (Mn/6) + ((Cr+Mo+V)/5) + ((Ni+Cu)/15)$   
 $Pcm = C + (Si/30) + (Mn/20) + (Cu/20) + (Ni/60) + (Cr/20) + (Mo/15) + (V/10) + 5B$   $CE2 = C + ((Mn+Si)/6) + ((Cr+Mo+V+Cb)/5) + ((Ni+Cu)/15)$

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Description Part #	Heat# Grade(s) Test/Heat JW	Yield/ Tensile Ratio	Yield (PSI)	Tensile (PSI)	Elong (%)	C	Mn	P	S	Si	Cu	Ni	CE1
						Cr *****	Mo Ti	Sn *****	B *****	V N	Nb *****	CI *****	CE2 Pcm
W14x22	2617012	.83	56400	68100	28.58	.07	.87	.007	.018	.21	.10	.03	.23
040' 00.00'	A992-11(15)		389	470		.05	.01	.0065	.0002	.004	.029		.2717
W360x32.9		.85	56700	67100	29.05		.001			.0047		2.86	.1263
012.1920m			391	463	87 Pcm(s)	76,560 lbs						Inv#:	0

21 Heat(s) for this MIR.

=====  
Elongation based on 8' (20.32cm) gauge length. 'No Weld Repair' was performed.

CI = 26.01Cu+3.88Ni+1.20Cr+1.49Si+17.28P-(7.29Cu\*Ni)-(9.10Ni\*P)-33.39(Cu\*Cu)  
Pcm = C+(Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+5B

CE1 = C+(Mn/6)+((Cr+Mo+V)/5)+((Ni+Cu)/15)  
CE2 = C+((Mn+Si)/6)+((Cr+Mo+V+Cb)/5)+((Ni+Cu)/15)

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