

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

CERTIFIED MILL TEST REPORT

10/03/14 13:18:48

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: PLESA ANAHUAC Y CIA SA DE CV
AVE VALLE DE LES ALAMEDES
NO 66-0
TULTITLAN, EM 54940

Ship To: DIX SHIPPING PORT OF TAMPICO
TERMINAL MUELLES FISCALES
CPT MUELLES FISCALES, TM
TAMPICO, TM 89000

Customer #: 3926 - 2
Customer PO: 19386
B.o.I. #: 1097168

MOS: B

SPECIFICATIONS: Tested in accordance with ASTM specification A6/A6M-14 and A370. Quality Manual Rev #27.

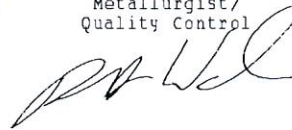
AASHTO : M270-50-10
ASME : SA-36 07a
ASTM : A992-11/A36-12/A529-05-50/A572 5013a/A709-5013a
CSA : G40.2150WM/G402150WMT

Description	Heat# Test/Heat JW	Yield/ Tensile Ratio	Yield (PSI) (MPa)	Tensile (PSI) (MPa)	Elong %	C Cr xxxxxxx	Mn Mo Ti	P Sn xxxxxxx	S B xxxxxxx	Si V N	Cu Nb xxxxxxx	Ni xxxxxxx CI	CE1	CE2
													Pcm	Pcm
W10x12	2410912	.86	64000	74600	25.25	.07	.83	.008	.022	.22	.11	.04	.23	
040' 00.00'	A992-11		441	514		.03	.01	.0071	.0004	.005	.017		.2655	
W250X17.9		.87	65100	75200	24.53		.001			.0054		3.11	.1280	
012.1920m			449				16 Pc(s)	7,680 lbs					Inv#:	0
W10x12	1410886	.85	59900	70200	23.20	.07	.86	.008	.034	.25	.15	.04	.24	
040' 00.00'	A992-11		413	484		.04	.01	.0061	.0003	.003	.016		.2838	
W250X17.9		.85	58700	69000	23.19		.001			.0046		3.87	.1352	
012.1920m			405	476			80 Pc(s)	38,400 lbs					Inv#:	0
W10x15	1405711	.85	61400	72500	26.93	.07	.83	.009	.028	.25	.10	.04	.23	
040' 00.00'	A992-11		423	500		.04	.01	.0057	.0003	.003	.031		.2753	
W250X22.3		.85	61200	71900	27.38		.001			.0048		3.03	.1305	
012.1920m			422	496			24 Pc(s)	14,400 lbs					Inv#:	0
W10x15	1410884	.84	59000	69900	25.70	.06	.86	.008	.034	.25	.16	.04	.23	
040' 00.00'	A992-11		407	482		.04	.01	.0060	.0003	.003	.030		.2797	
W250X22.3		.84	58200	69200	26.84		.001			.0044		3.99	.1291	
012.1920m			401	477			11 Pc(s)	6,600 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-(7.29CuXNi)-(9.10NiXP)-33.39(CuXCu) 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)

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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AVE VALLE DE LES ALAMEDES
NO 66-0
TULTITLAN, EM 54940

Ship To: DIX SHIPPING PORT OF TAMPICO
TERMINAL MUELLES FISCALES
CPT MUELLES FISCALES, TM
TAMPICO, TM 89000

Customer #: 3926 - 2
Customer PO: 19386
B.o.L. #: 1097168
MOS: B

SPECIFICATIONS: Tested in accordance with ASTM specification A6/A6M-14 and A370. Quality Manual Rev #27.

AASHTO : M270-50-10
ASME : SA-36 07a
ASTM : A992-11; A36-12/A529-05-50/A572 5013a/A709-5013a
CSA : G40.2150WM/G402150WMT

Description	Heat# Grade(s) Test/Heat JW	Yield/ Tensile Ratio	Yield (PSI) (MPa)	Tensile (PSI) (MPa)	Elong %	C Cr XXXXXX	Mn Mo Ti	P Sn XXXXXX	S B XXXXXX	Si V N	Cu Nb XXXXXX	Ni XXXXXX CI	CE1 CE2 Pcm
W10x15 040' 00.00' W250X22.3 012.1920m	1410875 A992-11	.85	60100 414	71000 490	27.08	.05 .06	.80 .01	.009 .0082	.030 .0002	.19 .003	.17 .028	.05	.23 .2634 1.249 Inv#:
			59000 407	69600 480	28.18 85 Pc(s)		51,000 lbs					4.09	0
W10x15 040' 00.00' W250X22.3 012.1920m	1410877 A992-11	.84	58700 405	69900 482	26.71	.07 .05	.85 .01	.008 .0065	.032 .0003	.22 .003	.16 .029	.05	.24 .2791 1.325 Inv#:
			59500 411	70500 486	26.48 23 Pc(s)		13,800 lbs					3.94	0
W10x15 040' 00.00' W250X22.3 012.1920m	1410882 A992-11	.84	60500 417	71700 494	24.88	.07 .05	.86 .01	.008 .0074	.030 .0005	.25 .004	.16 .029	.04	.24 .2869 1.359 Inv#:
			60300 416	71100 490	25.58 1 Pc(s)		600 lbs					3.98	0
W12x26 040' 00.00' W310X38.7 012.1920m	2410157 A992-11	.82	57200 394	69800 481	24.64	.07 .06	1.02 .01	.009 .0088	.030 .0005	.28 .005	.18 .031	.05	.27 .3191 1.421 Inv#:
			58500 404	70600 487	24.15 42 Pc(s)		43,680 lbs					4.40	0

Elongation based on 8" (20.32cm) gauge length. 'No Weld Repair' was performed. Hg free and no contact with Hg during manufacture.
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W12X40 040' 00.00' W310X60 012.1920m	2411319 A992-11	.80	57700 398	71900 496	24.15	.07 .06	1.07 .01	.009 .0086	.029 .0004	.29 .005	.16 .031	.05 4.12	.28 .3321 .1493
						76,800 lbs		Inv#: 0					
W12X40 040' 00.00' W310X60 012.1920m	2411307 A992-11	.80	56900 392	71000 490	22.79	.07 .04	1.07 .01	.008 .0101	.031 .0004	.28 .005	.15 .030	.04 3.84	.27 .3258 .1483
						16,000 lbs		Inv#: 0					
W12X40 040' 00.00' W310X60 012.1920m	2411305 A992-11	.80	58500 403	73000 503	25.13	.07 .04	1.05 .01	.008 .0104	.031 .0005	.27 .005	.15 .031	.04 3.86	.27 .3188 .1438
						16,000 lbs		Inv#: 0					
W16x26 040' 00.00' W410x39 012.1920m	1405961 A992-11	.84	60500 417	71600 494	28.63	.07 .04	.83 .01	.011 .0053	.026 .0003	.23 .004	.09 .026	.04 2.70	.22 .2680 .1259
						62,400 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-(7.29CuXNi)-(9.10NiXP)-33.39(CuXCu) 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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 CPT MUELLES FISCALES, TM
 TAMPICO, TM 89000

Customer H.: 3926 - 2
 Customer PD: 19386
 B.O.L. #: 1097168

MOS: B

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 ASTM : A992-11; A36-12; A529-05-50; A572 5013a; A709-5013a
 CSA : G40.2150WM/G402150WMT

Description	Heat Grade(s) Test/Beat JW	Yield/ Tensile Ratio	Yield {PSI} {MPa}	Tensile {PSI} {MPa}	Elong %	C Cr XXXXXX	Mn Mo Ti	P Sn XXXXXX	S B XXXXXX	Si V N	Cu Nb XXXXXX	Ni XXXXXX CI	CE1	CE2
													Pcm	Pcm
W16x26 040' 00.00'	1405958 A992-11	.84	58400 403	69900 482	26.81	.07 .04	.82 .01	.010 .0059	.022 .0002	.20 .003	.08 .027	.04	.22 .2617	
W410x39 012.1920m		.84	58200 401	69600 480	27.11		.001			.0042		2.52	.1248	InvH: 0
W6X12 040' 00.00'	1407633 A992-11	.84	59800 412	71600 494	24.75	.07 .03	.85 .01	.008 .0065	.019 .0002	.24 .004	.12 .030	.04	.23 .2752	
W150X18.0 012.1920m		.84	59800 412	71300 492	23.79		.001			.0038		3.24	.1291	InvH: 0
W6X12 040' 00.00'	1407632 A992-11	.84	59800 412	71200 491	27.03	.07 .03	.84 .01	.008 .0060	.024 .0002	.19 .004	.13 .027	.04	.22 .2613	
W150X18.0 012.1920m		.83	58900 406	70900 489	25.48		.001			.0038		3.31	.1235	InvH: 0
W6X25 040' 00.00'	2409684 A992-11	.78	58200 401	74600 514	23.16	.07 .08	1.03 .03	.010 .0112	.038 .0005	.24 .005	.22 .030	.17	.29 .3355	
W150X37.1 012.1920m		.80	58500 403	73200 505	24.93		.001			.0068		5.13	.1510	InvH: 0

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 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	Heat# Grade(s) Test/Heat JW	Yield/ Tensile Ratio	Yield (PSI) (MPa)	Tensile (PSI) (MPa)	Elong %	C Cr XXXXXX	Mn Mo Ti	P Sn XXXXXX	S B XXXXXX	Si V N	Cu Nb XXXXXX	Ni XXXXXX CI	CE1	CE2	Pcm
W6X25 040' 00.00' W150X37.1 012.1920m	2409683 A992-11	.80	61000 421	75900 523	25.01	.07 .12	1.04 .03	.017 .0112	.041 .0006	.27 .005	.24 .030	.16	.30 .3505	.1550	
					36 Pc(s)	36,000 lbs						5.49	InvH:	0	
W6X8.5 040' 00.00' W150X12.6 012.1920m	2412080 A992-11	.84	57700 398	68700 474	27.25	.07 .05	.86 .01	.008 .0091	.029 .0004	.19 .004	.14 .014	.04	.24 .2714	.1316	
					38 Pc(s)	12,920 lbs						3.62	InvH:	0	
W6X8.5 040' 00.00' W150X12.6 012.1920m	2412078 A992-11	.83	57700 398	69400 479	27.18	.07 .04	.85 .01	.007 .0091	.029 .0004	.20 .004	.14 .015	.04	.23 .2645	.1265	
					48 Pc(s)	165,580 lbs						3.49	InvH:	0	
W6X9 040' 00.00' W150X13.5 012.1920m	4407848 A992-11	.82	56700 391	69400 479	26.63	.07 .06	.89 .01	.014 .0080	.026 .0004	.17 .005	.13 .014	.06	.25 .2811	.1374	
					48 Pc(s)	17,280 lbs						3.49	InvH:	0	

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 CI = 26.01Cu+3.89Ni+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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Description	Heat Grade(s) Test/Heat JW	Yield/ Tensile Ratio	Yield {PSI}	Tensile {PSI}	Elong {MPa}	Elong {MPa}	%	C	Mn	P	S	Si	Cu	Ni	CE1
								Cr xxxxxxx	Mo Ti	Sn xxxxxxx	B xxxxxxx	V N	Nb xxxxxxx	CI xxxxxxx	CE2 Pcm
W6X9 040' 00.00' W150X13.5 012.1920m	2407846 A992-11	.81	56100	69200	27.64			.07	.87	.013	.017	.20	.12	.05	.24
			387	477				.06	.01	.0076	.0003	.004	.014		.2759
		.82	56700	69400	27.33				.001			.0052		3.40	.1323
			391	479	132	Pc(s)	47,520	lbs						Inv#:	0
W8X13 040' 00.00' W200X19.3 012.1920m	2409056 A992-11	.83	60100	72300	27.28			.07	.84	.011	.037	.22	.26	.07	.24
			414	0				.06	.01	.0125	.0005	.004	.027		.2856
		.83	60500	72800	26.56				.001			.0064		5.24	.1368
			417	502	93	Pc(s)	48,360	lbs						Inv#:	0
W8X13 040' 00.00' W200X19.3 012.1920m	2409055 A992-11	.84	61500	73000	26.45			.07	.86	.011	.034	.24	.26	.07	.25
			424	503				.06	.01	.0143	.0005	.005	.031		.2953
		.84	60300	71600	25.51				.001			.0061		5.27	.1403
			416	494	39	Pc(s)	20,280	lbs						Inv#:	0
W8X15 040' 00.00' W200X22.5 012.1920m	2403775 A992-11	.84	59700	71300	29.09			.07	.84	.012	.031	.22	.15	.05	.24
			412	492				.06	.01	.0089	.0004	.004	.029		.2806
		.83	58400	70200	27.11				.001			.0041		3.95	.1348
			403	484	60	Pc(s)	36,000	lbs						Inv#:	0

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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	Heat Grade(s) Test/Heat JW	Yield/ Tensile Ratio	Yield {PSI}	Tensile {PSI}	Elong {%}	C Cr XXXXXX	Mn Mo Ti	P Sn XXXXXX	S B XXXXXX	Si V N	Cu Nb XXXXXX	Ni XXXXXX CI	CE1
													CE2 Pcm
W8X15 040' 00.00' W200X22.5 012.1920m	2403709 A992-11	.84	58900 406	69800 481	27.71	.07 .04	.86 .01	.013 .0114	.028 .0004	.20 .005	.10 .028	.03	.23 .2697 .1288
					43 Pc(s)		25,800 lbs					2.87	Inv#: 0
W8X15 040' 00.00' W200X22.5 012.1920m	1403782 A992-11	.84	57800 399	68700 474	29.05	.07 .04	.81 .01	.012 .0066	.028 .0004	.20 .004	.13 .029	.04	.22 .2636 .1264
					2 Pc(s)		1,200 lbs					3.45	Inv#: 0
W8X15 040' 00.00' W200X22.5 012.1920m	2403766 A992-11	.84	56800 392	68000 469	27.76	.07 .03	.80 .01	.011 .0072	.024 .0002	.17 .003	.12 .028	.04	.22 .2528 .1222
					3 Pc(s)		1,800 lbs					3.27	Inv#: 0
W8X18 040' 00.00' W200X26.6 012.1920m	1403604 A992-11	.84	59400 410	70600 487	25.04	.07 .03	.84 .01	.007 .0076	.029 .0005	.22 .003	.16 .027	.05	.23 .2706 .1288
					30 Pc(s)		21,600 lbs					3.99	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-(7.29CuXNi)-(9.10NiXP)-33.39(CuXCu) 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)

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



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

CERTIFIED MILL TEST REPORT

10/03/14 13:18:48

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: PIESA ANAHUAC Y CIA SA DE CV
AVE VALLE DE LES ALAMEDES
NO 66-0
TULITIAN, EM 54940

Ship To: DIX SHIPPING PORT OF TAMPICO
TERMINAL MUELLES FISCALES
CPT MUELLES FISCALES, IM
TAMPICO, IM 89000

Customer #: 3926 - 2
Customer PO: 19386
B.o.L. H...: 1097168
MOS: B

SPECIFICATIONS: Tested in accordance with ASTM specification A6/A6M-14 and A370. Quality Manual Rev #27.

AASHIO : M270-50-10
ASME : SA-36 07a
ASTM : A992-11; A36-12/A529-05-50/A572 5013a/A709-5013a
CSA : G40.2150WM/G402150WMT
28 Heat(s) for this MTR.

=====
Elongation based on 8" (20.32cm) gauge length. 'No Weld Repair' was performed.
CI = $26.01\text{Cu} + 3.88\text{Ni} + 1.20\text{Cr} + 1.49\text{Si} + 17.28\text{P} - (7.29\text{Cu} \times \text{Ni}) - (9.10\text{Ni} \times \text{P}) - 33.39(\text{Cu} \times \text{Cu})$
Pcm = $\text{C} + (\text{Si}/30) + (\text{Mn}/20) + (\text{Cu}/20) + (\text{Ni}/60) + (\text{Cr}/20) + (\text{Mo}/15) + (\text{V}/10) + 5\text{B}$
CE1 = $\text{C} + (\text{Mn}/6) + ((\text{Cr} + \text{Mo} + \text{V})/5) + ((\text{Ni} + \text{Cu})/15)$
CE2 = $\text{C} + ((\text{Mn} + \text{Si})/6) + ((\text{Cr} + \text{Mo} + \text{V} + \text{Cb})/5) + ((\text{Ni} + \text{Cu})/15)$

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

