

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

CERTIFIED MILL TEST REPORT

10/03/14 13:18:39

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
TULITILIAN, EM 54940

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

Customer H.: 3926 - 2
Customer PO: 19349
B.o.L. #: 1097171
MOS: B

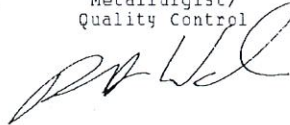
SPECIFICATIONS: Tested in accordance with ASTM specification A6/A6M-14 and A370. Quality Manual Rev #27.
AASHTO : M270-50-1Q
ASME : SA-36 07a
ASTM : A992-11/A36-12/A529-05-50/A572 5013a/A709-5013a
CSA : G40.2150WM/G402150WMT

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	Pcm
W10x22 040' 00.00' W250X32.7 012.1920m	1410840 A992-11	.84	56500 390	67000 462	26.44	.05 .04	.81 .01	.007 .0063	.035 .0003	.23 .003	.16 .029	.04	.22 .2665	.1257
		.85	57500 397	68100 470	27.19 48 Pc(s)	42,240 lbs				.0040		4.00	Inv#: 0	
W10x26 040' 00.00' W250X38.5 012.1920m	1410818 A992-11	.83	56500 390	67700 467	26.25	.06 .05	.86 .01	.008 .0067	.029 .0002	.22 .003	.18 .029	.05	.23 .2757	.1284
		.83	56800 392	68200 470	27.36 66 Pc(s)	68,640 lbs				.0050		4.22	Inv#: 0	
W10x30 040' 00.00' W250X44.8 012.1920m	1410804 A992-11	.82	54900 379	67100 463	27.69	.06 .04	.84 .01	.013 .0050	.024 .0003	.23 .004	.15 .025	.04	.23 .2728	.1273
		.82	54600 376	66300 457	27.80 3 Pc(s)	3,600 lbs				.0044		3.88	Inv#: 0	
W10x30 040' 00.00' W250X44.8 012.1920m	1410811 A992-11	.82	55600 383	67900 468	27.79	.07 .05	.81 .01	.009 .0064	.032 .0003	.23 .003	.20 .026	.05	.23 .2733	.1305
		.82	56000 386	68200 470	26.55 3 Pc(s)	3,600 lbs				.0054		4.57	Inv#: 0	

Elongation based on 8" (20.32cm) gauge length. 'No Weld Repair' was performed. Hg free and no contact with Hg during manufacture.
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 65-0
 TULTITLAN, EM 54940

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

Customer #: 3926 - 2
 Customer PO: 19349
 B.o.L. #: 1097171
 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

Description	Beat# 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
W10x30 040' 00.00'	1410807 A992-11	.82	55900 385	68200 470	26.23	.07 .04	.85 .01	.009 .0061	.030 .0003	.22 .004	.17 .027	.04	.23 .2725	
W250X44.8 012.1920m		.81	53700 370	66400 458	25.19		.001			.0052		4.08	.1287	Inv#: 0
W10x30 040' 00.00'	1410808 A992-11	.83	56900 392	68700 474	27.53	.07 .04	.83 .01	.009 .0059	.029 .0003	.25 .003	.17 .028	.04	.23 .2814	
W250X44.8 012.1920m		.82	56400 389	68900 475	27.16		.001			.0049		4.18	.1338	Inv#: 0
W10x30 040' 00.00'	1410815 A992-11	.82	55300 381	67600 466	25.40	.07 .05	.84 .01	.008 .0067	.029 .0003	.20 .003	.19 .028	.05	.23 .2713	
W250X44.8 012.1920m		.82	54900 379	66900 461	27.18		.001			.0055		4.35	.1288	Inv#: 0
W12x26 040' 00.00'	2410079 A992-11	.82	57600 397	70500 486	24.93	.07 .04	1.01 .01	.008 .0084	.030 .0005	.27 .005	.16 .028	.04	.26 .3077	
W310X38.7 012.1920m		.82	58000 400	70400 485	24.80		.001			.0052		3.95	.1388	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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TAMPICO, TM 89000

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Customer PO: 19349
B.o.L. #: 1097171

MOS: B

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ASME : SA-36 07a
ASIM : 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 %	a	C	Mn	P	S	Si	Cu	Ni	CE1
							Cr XXXXXX	Mo Ti	Sn XXXXXX	B XXXXXX	V N	Nb XXXXXX	CI XXXXXX	CE2 Pcm
W12x26 040' 00.00' W310X38.7 012.1920m	2410081 A992-11	.81	57100 394	70400 485	23.90		.07 .05	1.03 .01	.010 .0084	.028 .0004	.26 .0050	.16 .029	.05 3.98	.26 .3120 .1399
			57600 397	70100 483	24.15	28 Pc(s)	29,120 lbs						InvH:	0
W12x26 040' 00.00' W310X38.7 012.1920m	2410119 A992-11	.80	56400 389	70200 484	24.43		.07 .07	1.03 .03	.009 .0091	.031 .0005	.29 .0055	.15 .031	.06 3.93	.27 .3271 .1455
			54900 379	68600 473	24.56	3 Pc(s)	3,120 lbs						InvH:	0
W12x26 040' 00.00' W310X38.7 012.1920m	2410121 A992-11	.80	55600 383	69900 482	24.36		.07 .05	1.02 .02	.008 .0089	.031 .0005	.26 .0051	.16 .030	.06 3.99	.27 .3157 .1418
			56100 387	68800 474	24.40	15 Pc(s)	15,600 lbs						InvH:	0
W12x26 040' 00.00' W310X38.7 012.1920m	2410140 A992-11	.81	57300 395	70900 489	25.05		.07 .06	1.08 .01	.013 .0091	.031 .0005	.25 .0054	.19 .030	.05 4.50	.28 .3260 .1481
			58500 403	71500 493	25.75	6 Pc(s)	6,240 lbs						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-(7.29CuXNi)-(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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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
W12x35 040' 00.00'	1404875 A992-11	.81	57200 394	71000 490	23.84	.07 .03	1.02 .01	.011 .0065	.026 .0003	.21 .004	.14 .029	.04	.26	.3003	
W310X52 012.1920m		.80	56600 390	70700 487	23.88		.001			.0053		3.58	.1372		InvH: 0
W12x35 040' 00.00'	2404912 A992-11	.82	57800 399	70500 486	23.74	.07 .04	1.02 .01	.014 .0069	.012 .0003	.28 .005	.13 .029	.04	.26	.3112	
W310X52 012.1920m		.81	57000 393	70400 485	24.41		.001			.0039		3.62	.1384		InvH: 0
W12x35 040' 00.00'	1404873 A992-11	.82	57100 394	70000 483	23.90	.07 .03	1.02 .01	.008 .0056	.024 .0002	.22 .004	.12 .028	.04	.26	.3022	
W310X52 012.1920m		.81	56500 390	70100 483	23.39		.001			.0044		3.28	.1396		InvH: 0

15 Heat(s) for this MTR.

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

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

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