

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

CERTIFIED MILL TEST REPORT

10/03/14 13:18:56

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 #: 3926 - 2
Customer PO: 19387
B.o.L. #: 1097164

MOS: B

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

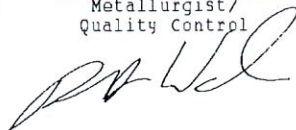
AASHTO : M270-50-10
ASME : SA-36 07a
ASTM : A992-11; A36-12/A529-05-50/A572 5013a/A709-5013a
CSA : G40.2150WM/G402150WMT

Description	Beat# Grade(s) Test/Beat 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 Nb xxxxxxx CI	CE1	CE2
													Pcm	Pcm
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	96 Pc(s)		46,080 lbs					Inv#:		0
W12x26	2405074	.83	58500	70400	25.88	.07	.84	.013	.030	.19	.15	.05	.23	
040' 00.00'	A992-11		403	485		.04	.01	.0076	.0004	.004	.028		.2680	
W310X38.7		.82	55600	67800	24.20		.001			.0071		3.78	.1288	
012.1920m			383	467	10 Pc(s)		10,400 lbs					Inv#:		0
W12x26	2405072	.82	57700	70200	23.91	.07	.85	.012	.033	.19	.15	.04	.23	
040' 00.00'	A992-11		398	484		.04	.01	.0068	.0002	.003	.029		.2689	
W310X38.7		.82	58200	70700	21.74		.001			.0063		3.77	.1277	
012.1920m			401	487	1 Pc(s)		1,040 lbs					Inv#:		0
W12x26	2405081	.81	56700	69700	24.43	.07	.83	.010	.033	.21	.14	.04	.23	
040' 00.00'	A992-11		391	481		.04	.01	.0072	.0004	.004	.029		.2689	
W310X38.7		.80	55400	69100	24.90		.001			.0046		3.68	.1292	
012.1920m			382	476	1 Pc(s)		1,040 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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Bruce A. Work
Metallurgist/
Quality Control



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Sold To: PIESA 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: 19387
B.o.L. #: 1097164
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/G40.2150WMT

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 S B XXXXXX	Si V N	Cu Nb XXXXXX	Ni XXXXXX CI	CE1 CE2 Pcm
W12x26 040' 00.00'	2410157 A992-11	.82	57200	69800	24.64	.07	1.02	.009	.030	.28	.18	.05	.27
W310X38.7 012.1920m		.83	58600	70600	24.15	.06	.01	.0088	.0005	.005	.031	4.40	.3191 .1421
			404	487	18 Pc(s)	18,720 lbs				.0049			InvH: 0
W12x26 040' 00.00'	2410121 A992-11	.80	55600	69900	24.36	.07	1.02	.008	.031	.26	.16	.06	.27
W310X38.7 012.1920m		.82	56100	68800	24.40	.05	.02	.0089	.0005	.005	.030	3.99	.3157 .1418
			387	474	32 Pc(s)	33,280 lbs				.0051			InvH: 0
W12x26 040' 00.00'	2410124 A992-11	.81	59000	72800	24.41	.07	1.04	.009	.030	.26	.17	.05	.27
W310X38.7 012.1920m		.82	58500	71200	25.03	.05	.01	.0088	.0004	.005	.031	4.17	.3189 .1421
			403	491	4 Pc(s)	4,160 lbs				.0045			InvH: 0
W12x30 040' 00.00'	2404920 A992-11	.82	60800	74100	25.00	.07	1.13	.009	.025	.23	.15	.04	.28
W310X44.5 012.1920m		.82	60900	74000	22.95	.03	.01	.0074	.0004	.005	.029	3.72	.3213 .1431
			420	510	45 Pc(s)	54,000 lbs				.0050			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)
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W12x30 040' 00.00' W310X44.5 012.1920m	2405008 A992-11	.80	58800 405	73300 505	22.88	.07 .04	1.03 .01	.010 .0103	.023 .0003	.21 .005	.19 .027	.05 4.38	.27 .3093 .1438
			375	510	9 Pc(s)		10,800 lbs					InvH:	0
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
			58100 401	72100 497	25.26		51,200 lbs					InvH:	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
			55800 385	70800 486	24.41		51,200 lbs					InvH:	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
			57100 394	70900 489	23.75		51,200 lbs					InvH:	0

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W14X30 040' 00.00' W360X44 012.1920m	2408279 A992-11	.82	58800 405	71400 492	22.79	.07 .03	1.04 .01	.007 .0074	.025 .0004	.24 .005	.13 .029	.04 3.40	.26 .3110 .1424 InvH: 0
W14X30 040' 00.00' W360X44 012.1920m	2408263 A992-11	.81 .80	55700 384	68800 474	24.60	.07 .05	1.04 .01	.009 .0089	.028 .0004	.26 .005	.14 .029	.05 3.77	.27 .3165 .1414 InvH: 0
W14X30 040' 00.00' W360X44 012.1920m	2408277 A992-11	.83 .82	56100 387	67700 467	22.40	.07 .04	1.00 .01	.007 .0079	.028 .0004	.26 .005	.12 .032	.04 3.31	.26 .3053 .1387 InvH: 0
W14X30 040' 00.00' W360X44 012.1920m	2408274 A992-11	.81 .81	57800 399	71500 493	23.43	.07 .03	1.02 .01	.008 .0078	.028 .0004	.27 .005	.13 .029	.05 3.48	.26 .3102 .1404 InvH: 0

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													Pcm	Pcm
W14X30 040' 00.00'	2408270 A992-11	.80	54200 374	67400 465	24.80	.07 .04	1.04 .01	.008 .0079	.028 .0004	.24 .005	.12 .028	.04	.25 .3077	
W360X44 012.1920m		.81	59500 410	73700 506	24.80					.0050		3.32	.1389	InvH: 0
W16x26 040' 00.00'	1405961 A992-11	.84	60500 417	71600 494	28.53	.07 .04	.83 .01	.011 .0053	.026 .0003	.23 .004	.09 .026	.04	.22 .2680	
W410x39 012.1920m		.82	58100 401	70900 489	27.14		.001			.0050		2.70	.1259	InvH: 0
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
W6X25 040' 00.00'	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	
W150X37.1 012.1920m		.81	61100 421	75000 517	25.53		.001			.0071		5.49	.1550	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	Pcm
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
					27.23		.001			.0052		3.62		0
					219 Pc(s)		74,460 lbs					InvH:		
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
					25.75		.001			.0054		3.49		0
					33 Pc(s)		11,220 lbs					InvH:		
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
					27.09		.001			.0039		2.87		0
					36 Pc(s)		21,600 lbs					InvH:		
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
					25.76		.001			.0052		3.99		0
					60 Pc(s)		43,200 lbs					InvH:		

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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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CSA : G40.2150WM/G402150WMT

24 Heat(s) for this MIR.

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

CI = 26.01Cu+3.88Ni+1.20Cr+1.49Si+17.28P-(7.29CuXNi)-(9.10NiXP)-33.39(CuXCu)

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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