

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

CERTIFIED MILL TEST REPORT

10/03/14 13:18:29

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: 19348
B.o.L. H...: 1097172
MOS: B

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

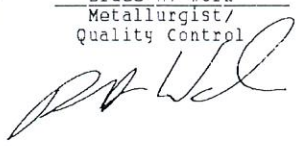
AASHTO : M270-50-10
ASME : SA-36 07a
ASTM : A992-11:A36-12/A529-05-50/A572 5013a/A709-5013a
CSA : G40.2150WM/G402150WMT

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
W10x22 040' 00.00' W250X32.7 012.1920m	1410842 A992-11	.85	58300 402	68800 474	28.01	.07 .04	.87 .01	.007 .0060	.031 .0003	.24 .003	.15 .030	.05	.24 .2835 .1324
			426	498	40 Pc(s)		35,200 lbs					Inv#:	0
W10x22 040' 00.00' W250X32.7 012.1920m	1410846 A992-11	.85	58400 403	69000 476	27.18	.07 .04	.83 .01	.007 .0069	.037 .0003	.22 .003	.14 .031	.04	.23 .2765 .1339
		.83	55400 382	66500 459	28.35 4 Pc(s)		3,520 lbs			.0037		3.63	Inv#: 0
W10x22 040' 00.00' W250X32.7 012.1920m	1410840 A992-11	.84	56500 390	67000 462	26.44	.06 .04	.81 .01	.007 .0063	.036 .0003	.23 .003	.16 .029	.04	.22 .2665 .1257
		.85	57600 397	68100 470	27.19 34 Pc(s)		29,920 lbs			.0040		4.00	Inv#: 0
W12x26 040' 00.00' W310X38.7 012.1920m	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 .1388
		.82	58000 400	70400 485	24.80 13 Pc(s)		13,520 lbs			.0052		3.95	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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 CPT MUELLES FISCALES, TM
 TAMPICO, TM 89000

Customer #: 3926 - 2
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 CSA : G40.2150WM/G402150WMT

Description	Heat# Grade(s) 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 Nb xxxxxxx CI	CE1	CE2	Pcm
													.27	.3157	
W12x26 040' 00.00' W310X38.7 012.1920m	2410087 A992-11	.82	57100 394	69500 479	24.83	.07 .05	1.02 .01	.010 .0123	.031 .0004	.26 .0050	.18 .031	.06	.27 .3160 .1425	.27 .3160 .1425	0
													Inv#:	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	.27 .3157 .1418	.27 .3157 .1418	0
													Inv#:	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	.27 .3271 .1455	.27 .3271 .1455	0
													Inv#:	0	
W12x26 040' 00.00' W310X38.7 012.1920m	2410124 A992-11	.81	59000 407	72800 502	24.41	.07 .05	1.04 .01	.009 .0088	.030 .0004	.26 .0045	.17 .031	.05	.27 .3189 .1421	.27 .3189 .1421	0
													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) (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
W12x26 040' 00.00' W310X38.7 012.1920m	1410129 A992-11	.82	56500 390	69300 478	24.34	.07 .05	1.02 .01	.012 .0080	.031 .0005	.24 .005	.15 .029	.04	.27 .3129	.1452
			57000 393	69900 482	25.75		.001 2,080 lbs			.0050		3.90	InvH: 0	
W12x26 040' 00.00' W310X38.7 012.1920m	2410132 A992-11	.81	56800 392	69900 482	24.73	.07 .06	1.02 .01	.012 .0089	.033 .0005	.26 .005	.19 .030	.05	.27 .3167	.1425
		.82	56900 392	69200 477	24.85		.001 2,080 lbs			.0051		4.54	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 .005	.19 .030	.05	.28 .3260	.1481
		.82	58500 403	71500 493	25.75		.001 106,080 lbs			.0054		4.50	InvH: 0	
W12x30 040' 00.00' W310X44.5 012.1920m	2404920 A992-11	.82	60800 419	74100 511	25.00	.07 .03	1.13 .01	.009 .0074	.025 .0004	.23 .005	.15 .029	.04	.28 .3213	.1431
		.82	60900 420	74000 510	22.95		.001 43,200 lbs			.0050		3.72	InvH: 0	

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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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 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 CI xxxxxx	CE1 CE2 Pcm	
W14x22 040' 00.00' W360X32.9 012.1920m	2408413 A992-11	.84	62000 427	74000 510	26.16	.07 .04	.82 .01	.010 .0094	.030 .0004	.20 .004 .0069	.15 .028	.05	.23 .2686 .1309	
						54 Pc(s) 47,520 lbs		Inv#:						0
W14x22 040' 00.00' W360X32.9 012.1920m	2408412 A992-11	.86	65600 452	76100 525	28.53	.07 .04	.89 .01	.008 .0090	.030 .0004	.21 .005 .0049	.13 .026	.05	.24 .2763 .1296	
						6 Pc(s) 5,280 lbs		Inv#:						0
W14x30 040' 00.00' W360X44 012.1920m	2408263 A992-11	.81	55700 384	68800 474	24.60	.07 .05	1.04 .01	.009 .0089	.028 .0004	.26 .005 .0051	.14 .029	.05	.27 .3165 .1414	
						7 Pc(s) 8,400 lbs		Inv#:						0
W14x30 040' 00.00' W360X44 012.1920m	2408261 A992-11	.81	55300 381	68300 471	24.79	.07 .06	1.04 .01	.010 .0086	.033 .0005	.29 .005 .0045	.14 .031	.07	.28 .3314 .1504	
						24 Pc(s) 28,800 lbs		Inv#:						0

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Description	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 Nb ***** CI	CE1 CE2 Pcm
W14X30	2408274	.81	57800	71500	23.43	.07	1.02	.008	.028	.27	.13	.05	.26
040' 00.00'	A992-11		399	493		.03	.01	.0078	.0004	.005	.029		.3102
W360X44		.81	55800	68600	24.93		.001			.0054		3.48	.1404
012.1920m			385	473	3 Pc(s)		3,600 lbs					Inv#:	0
W14X30	2408279	.82	58800	71400	22.79	.07	1.04	.007	.025	.24	.13	.04	.26
040' 00.00'	A992-11		405	492		.03	.01	.0074	.0004	.005	.029		.3110
W360X44		.82	57100	69300	23.64		.001			.0044		3.40	.1424
012.1920m			394	478	1 Pc(s)		1,200 lbs					Inv#:	0
W14X30	2408268	.81	56900	70600	24.31	.07	1.02	.007	.032	.27	.13	.04	.26
040' 00.00'	A992-11		392	487		.03	.01	.0083	.0004	.005	.030		.3132
W360X44		.81	56700	70400	25.14		.001			.0053		3.46	.1432
012.1920m			391	485	20 Pc(s)		24,000 lbs					Inv#:	0
W6X8.5	2412080	.84	57700	68700	27.25	.07	.86	.008	.029	.19	.14	.04	.24
040' 00.00'	A992-11		398	474		.05	.01	.0091	.0004	.004	.014		.2714
W150X12.6		.84	57300	68600	27.23		.001			.0052		3.62	.1316
012.1920m			395	473	21 Pc(s)		7,140 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) (MPa)	Tensile (PSI) (MPa)	Elong ^a %	C	Mn	P	S	Si	Cu	Ni	CE1
						Cr xxxxxxx	Mo Ti	Sn xxxxxxx	B xxxxxxx	V N	Nb xxxxxxx	CI CI	CE2 Pcm
W6XB.5	2412078	.83	57700	69400	27.18	.07	.85	.007	.029	.20	.14	.04	.23
040' 00.00'	A992-11		398	479		.04	.01	.0091	.0004	.004	.015		.2645
W150X12.6		.83	57100	69000	25.75		.001			.0054		3.49	.1265
012.1920m			394	476	42	Pc(s) 14,280 lbs						InvH:	0

21 Heat(s) for this MTR.

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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) 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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