

NUCOR STEEL - BERKELEY
14455 Hagan Avenue
Hager, SC 29450
Phone: (843) 336-6000

CERTIFIED MILL TEST REPORT

10/28/24 8:21:31
100% EAF MELTED AND MANUFACTURED IN THE USA
Structural sections produced by Nucor-Berkeley are cast
and hot rolled to a fully killed and fine grain practice,
Mercury not intentionally added at any point during manufacturing.

Sold To: SUPERIOR SUPPLY AND STEEL
PO BOX 2388
SULPHUR, IA 70664

Ship To: SUPERIOR SUPPLY & STEEL
318 CITY SERVICE HIGHWAY
SULPHUR, IA 70663

Customer #: 808 - 1
Customer PO: P025191601
B.O.I. #: 1792439
MOS: T

SPECIFICATIONS: Tested in accordance with ASTM Specification A6/A6M-22 and A370-22. Tested in accordance with EN10204-2004-3.1.
Quality Manual Rev #19 (11-30-22).

ASTM : M270-50-23
ASTM : A992-22/A36-19/A529-19-50/A57250211/A7095021
CSA : G40.2150WM

Description	Heat#	Grade(s)	Tensile	Ratio	Yield (PSI)	Tensile (MPa)	Elong %	C	Cr	Mn	Mo	Ti	P	S	Si	V	N	Cu	Nb	Ni	CE1	CE2	Pcm
Part #	Test/Heat	JW	Ratio		(MPa)	(MPa)		*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
W12X40	1408229		.80		56000	69900	25.00	.08		1.06			.009	.020	.27			.10		.04		.27	
020' 00.00'	A992-22				386	482		.04		.00			.0056	.0004	.002			.031				.3218	
W310X60	55300		.81		55300	68100	22.00			.001					.0063					2.94		.1482	
006.0960m					381	470				Customer PO: P025191601								BoH: 1792439					

W12X40	2408225		.81		56900	69900	25.00	.07		1.08			.009	.016	.25			.08		.03		.26	
020' 00.00'	A992-22				392	482		.04		.01			.0045	.0003	.002			.031				.3102	
W310X60	55300		.81		55300	68200	24.00			.001					.0036					2.54		.1362	
006.0960m					381	470				Customer PO: P025191601								BoH: 1792439					

W4X13	1414376		.82		55800	68300	24.00	.07		.86			.011	.024	.21			.11		.05		.24	
020' 00.00'	A992-22				385	471		.05		.01			.0063	.0003	.002			.026				.2782	
W100X19.3	54700		.81		54700	67800	24.00			.001					.0052					3.14		.1336	
006.0960m					377	467				Customer PO: P025191601								BoH: 1792439					

Elongation based on 8" (20.32cm) gauge length. 'No Weld Repair' was performed. 'All mechanical testing is performed by the Quality CI = 26.01Cu+3.88Ni+1.20Cr+1.49Si+17.28P-(7.29CuXNi)-(9.10NiXP)-33.39(CuXCu) testing lab, which is independent of the production Pcm = C+(Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+5B departments"

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

Nucor certifies 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.

Emma Summers
Metallurgist/
Quality Control

Emma Summers

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RASTED : M270-50-23

ASTM : A992-22;A36-19/A529-19-50/A57250211/A7095021

CSA : G40.2150WM

Description	Heat Grade(s)	Yield/ Tensile Ratio	Yield (PSI) (MPa)	Tensile (PSI) (MPa)	Elong %	C Cr	Mn Mo Ti	P S	S B	Si V N	Cu Nb	Ni Cl	CE1 CE2 Pcm	
Part #	Test/Heat	JW				*****		*****	*****		*****	*****		
W4X13	144380		.80	58100	72200	24.00	.07	.81	.011	.026	.021	.17	.06	.24
020' 00.00"	A992-22		.81	401	498	25.00	.05	.01	.0067	.0003	.001	.026	.12	.2762
W100X19.3				56200	69700			.001		.0062		4.12		.1346
006.0960m				387	481	15 P.c(s)	3,900 lbs	Customer	PO: P025191601	BoH: 1792439				
W4X13	2407512		.81	55200	68300	25.00	.06	.80	.011	.014	.020	.10	.06	.22
040' 00.00"	A992-22		.81	381	471	20.00	.05	.01	.0062	.0002	.002	.027	.01	.2611
W100X19.3				55600	68400			.001		.0059		3.01		.1219
012.1920m				383	472	9 P.c(s)	4,680 lbs	Customer	PO: P025191601	BoH: 1792439				
W4X13	2407517		.81	54600	67200	26.00	.07	.85	.010	.015	.018	.10	.05	.23
040' 00.00"	A992-22		.81	376	463		.05	.01	.0068	.0002	.002	.028	.05	.2698
W100X19.3				54400	66900	24.00		.001		.0066		2.90		.1286
012.1920m				375	461	7 P.c(s)	3,640 lbs	Customer	PO: P025191601	BoH: 1792439				

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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) testing lab, which is independent of the production
Pcm = C+(Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+5B departments"
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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PARSED : M270-50-23

ASTM : A992-22;A36-19/A529-19-50/A57250211/A7095021

CSA : G40.2150WM

Description	Heat	Yield/ Tensile	Yield/ Tensile	Elong	C	Mn	P	S	Si	Cu	Ni	CE1
Part #	Test/Heat	Ratio	(PSI) (MPa)	%	Cr	Mo	Sn	B	V	Nb	Cl	CE2
					*****	Ti	*****	*****	N	*****		Pcm
W6X15	1411432	.85	60200	27.00	.07	1.04	.009	.018	.29	.07	.03	.26
020' 00.00'	A992-22	.84	435	490	.04	.00	.0038	.0003	.002	.031		.3111
W150X22.5	59200		70600	27.00		.001			.0064		2.43	.1373
006.0960m	408		487	12 Pc(s)	3,600 lbs	Customer	PO: P025191601	BoH: 1792439				
W6X15	2411427	.84	59200	26.00	.07	1.05	.011	.018	.27	.09	.03	.26
020' 00.00'	A992-22	.84	408	485	.05	.01	.0045	.0002	.002	.031		.3128
W150X22.5	58100		69000	28.00		.001			.0057		2.80	.1373
006.0960m	401		476	6 Pc(s)	1,800 lbs	Customer	PO: P025191601	BoH: 1792439				
W6X25	1411328	.80	55300	27.00	.07	1.07	.010	.012	.24	.07	.03	.27
020' 00.00'	A992-22	.82	381	474	.05	.00	.0042	.0003	.002	.031		.3154
W150X37.1	68300		68300	26.00		.001			.0052		2.41	.1437
006.0960m	385		471	8 Pc(s)	4,000 lbs	Customer	PO: P025191601	BoH: 1792439				

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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) testing lab, which is independent of the production
Pcm = C+(Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+5B departments"
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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CSA : G40.2150WM

Description	Heat	Yield/	Yield Tensile	Elong	C	Mn	P	S	Si	Cu	Ni	CE1
Part #	Grade(s)	Tensile	(PSI)	%	Cr	Mo	Sn	B	V	Nb	Cl	CE2
	Test/Heat	Ratio	(MPa)		*****	Ti	*****	*****	N	*****	*****	Pcm
W6X25	2411335	.81	53100	25.00	.07	1.06	.008	.013	.25	.07	.03	.26
020' 00.00"	A992-22		380	470	.04	.01	.0038	.0002	.002	.032		.3094
W150X37.1		.79	54700	24.00		.001			.0056		2.33	.1373
006.0960m			377	475		500 lbs	Customer PO: P025191601					
W6X9	2407734	.84	58100	25.00	.07	.83	.011	.017	.20	.11	.06	.23
020' 00.00"	A992-22		401	476	.04	.01	.0068	.0002	.002	.026		.2706
W150X13.5		.86	59500	27.00		.001			.0052		3.15	.1296
006.0960m			410	479		1,620 lbs	Customer PO: P025191601					
W6X9	2407737	.84	58300	25.00	.07	.85	.012	.018	.19	.11	.05	.23
020' 00.00"	A992-22		402	480	.04	.01	.0077	.0002	.002	.028		.2710
W150X13.5		.86	60400	27.00		.001			.0065		3.18	.1280
006.0960m			416	484		12 pc(s)	Customer PO: P025191601					

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Pcm = C+(Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+5B departments"
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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CSA : G40.2150WM

Description	Heat Grade(s)	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 Cl *****	CE1 CE2 Pcm
Part #	Test/Heat JW												
W8X21	1410340	.82	53700	67700	28.00	.07	.80	.010	.016	.22	.09	.04	.22
020' 00.00'	A992-22	.83	384	467	28.00	.05	.01	.0049	.0002	.002	.031	.2618	
W200X31.3			55600	67000	28.00		.001			.0036		2.73	.1217
006.0960m			383	462	9 Pc(s)	3,780 lbs	Customer	PO: P025191601	BoH: 1792439				
W8X21	2410345	.84	56100	67100	28.00	.06	.84	.011	.015	.19	.09	.04	.23
020' 00.00'	A992-22	.84	387	463	29.00	.06	.01	.0048	.0002	.002	.028	.2650	
W200X31.3			55600	66400	29.00		.001			.0061		2.71	.1231
006.0960m			383	458	1 Pc(s)	420 lbs	Customer	PO: P025191601	BoH: 1792439				
W8X40	2406217	.79	55700	70400	29.00	.07	1.01	.009	.020	.29	.12	.06	.27
020' 00.00'	A992-22	.79	384	485	26.00	.06	.01	.0046	.0003	.002	.027	.3218	
W200X39			54900	69600	26.00		.001			.0071		3.42	.1454
006.0960m			379	480	6 Pc(s)	4,800 lbs	Customer	PO: P025191601	BoH: 1792439				

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CI = 26.01Cu+3.88Ni+1.20Cr+1.49Si+17.28P-(7.29CuXNi)-(9.10NiXp)-33.39(CuXCu) testing lab, which is independent of the production
Pcm = C+(Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+5B departments"
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CSA : G40.2150WM

Description	Heat	Yield/	Tensile	Elong	C	Mn	P	S	Si	Cu	Ni	CE1
Part #	Grade(s)	Tensile	(PSI)	%	Cr	Mo	Sn	B	V	Nb	CI	CE2
	Test/Heat	Ratio	(Mpa)		*****	Ti	*****	*****	N	*****		Pcm
W8X40	1410792	.79	54300	27.00	.07	1.07	.010	.019	.24	.08	.04	.27
020' 00.00"	A992-22	.79	374	474	.05	.00	.0042	.0003	.002	.030		.3122
W200X39		.79	54400	68800		.001			.0059		2.53	.1398
006.0960m			375	474		4 pc(s)	3,200 lbs	Customer PO: P025191601	BoH: 1792439			
W8X40	2410783	.79	55000	69400	.07	1.02	.012	.018	.25	.10	.03	.26
020' 00.00"	A992-22	.79	379	479	.05	.01	.0043	.0003	.002	.030		.3048
W200X39		.79	54600	68800		.001			.0069		3.02	.1358
006.0960m			376	474		2 pc(s)	1,600 lbs	Customer PO: P025191601	BoH: 1792439			

17 Heat(s) for this MTR.

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Pcm = C+(Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+5B departments"
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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