

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

MDS: 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 : G40.2150W

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 #				(MPa)	(MPa)		*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
W12X40	1408229	.80	56000	69900	25.00	.08	1.06	.009	.020	.27	.10	.04	.27	.3218	.1482								
020' 00.00'	A992-22	.81	386	482	22.00	.04	.00	.0056	.0004	.002	.031	2.94											
W310X60	55300	.81	55300	68100	22.00	.04	.001	.0056	.0004	.002	.031	2.94											
006.0960m	381		381	470	4 Pc(s)	3,200 lbs	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	.81	392	482	24.00	.04	.01	.0045	.0003	.002	.031	2.54	.3102										
W310X60	55300	.81	55300	68200	24.00	.04	.001	.0045	.0003	.002	.031	2.54	.3102										
006.0960m	381		381	470	4 Pc(s)	3,200 lbs	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	.82	385	471	24.00	.05	.01	.0063	.0003	.002	.026	3.14	.2782										
W100X19.3	54700	.81	54700	67800	24.00	.05	.001	.0063	.0003	.002	.026	3.14	.2782										
006.0960m	377		377	467	1 Pc(s)	260 lbs	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/6)+((Cr+Mo+V)/5)+((Ni+Cu)/15) CE2 = 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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SULPHUR, LA 70663

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

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Quality Manual Rev #19 (11-30-22).

RASTERD : 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 Sn *****	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	.21	.17	.06	.24
020' 00.00'	A992-22	.81	401	498	25.00	.05	.01	.0067	.0003	.001	.026	4.12	.2762
W100X19.3			56200	69700			.001			.0062			.1346
006.0960m			387	481	15 Pc(s)	3,900 lbs	Customer	PO: P025191601	BoH: 1792439				
W4X13	2407512	.81	55200	68300	25.00	.06	.80	.011	.014	.20	.10	.06	.22
040' 00.00'	A992-22	.81	381	471	20.00	.05	.01	.0062	.0002	.002	.027	3.01	.2611
W100X19.3			55600	68400			.001			.0059			.1219
012.1920m			383	472	9 Pc(s)	4,680 lbs	Customer	PO: P025191601	BoH: 1792439				
W4X13	2407517	.81	54600	67200	26.00	.07	.85	.010	.015	.18	.10	.05	.23
040' 00.00'	A992-22	.81	376	463		.05	.01	.0068	.0002	.002	.028	2.90	.2698
W100X19.3			54400	66900	24.00		.001			.0066			.1286
012.1920m			375	461	7 Pc(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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Quality Manual Rev #19 (11-30-22).

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	Sb	B	V	Nb	CI	CE2
					*****	Ti	*****	*****	N	*****		Pcm
W6X15	1411432	.85	60200	27.00	.07	1.04	.009	.018	.29	.07	.03	.26
020' 00.00'	A992-22		435	490	.04	.00	.0038	.0003	.002	.031		.3111
W150X22.5		.84	59200	27.00		.001			.0064		2.43	.1373
006.0960m			408	487			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		408	485	.05	.01	.0045	.0002	.002	.031		.3128
W150X22.5		.84	58100	28.00		.001			.0057		2.80	.1373
006.0960m			401	476			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		381	474	.05	.00	.0042	.0003	.002	.031		.3154
W150X37.1		.82	55800	26.00		.001			.0052		2.41	.1437
006.0960m			385	471			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+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/A572S0211/A709S021
CSA : G40.2150WM

Description	Heat	Yield/	Yield Tensile	Elong	C	Mn	P	S	Si	Cu	Ni	CE1
Part #	Test/Heat JW	Tensile	(PSI) (MPa)	%	Cr	Mo	Sn	B	V	Nb	Cl	CE2
		Ratio			*****	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			.0036		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 Sb *****	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 P.C(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 P.C(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 P.C(s)	4,800 lbs	Customer	PO: P025191601	BoH: 1792439				

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

CSA : G40.2150WM

Description	Heat	Yield/	Tensile	Elong	C	Mn	P	S	Si	Cu	Ni	CE1
Part #	Test/Heat JW	Ratio	(MPa)	%	Cr	Mo	Sn	B	V	Nb	Cl	CE2
W8X40	1410792	.79	54300	68700	27.00	.07	1.07	.010	.019	.024	.08	.27
020' 00.00'	A992-22	.79	374	474	26.00	.05	.00	.0042	.0003	.002	.030	.3122
W200X39		.79	54400	68800		.001			.0039		2.53	.1398
006.0960m			375	474	4 Pc(s)	3,200 lbs	Customer PO: P025191601	BoH: 1792439				
W8X40	2410783	.79	55000	69400	26.00	.07	1.02	.012	.018	.025	.10	.26
020' 00.00'	A992-22	.79	379	479	26.00	.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
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