

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

CERTIFIED MILL TEST REPORT

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
 SUIPHUR, IA 70664

Shld To: SUPERIOR SUPPLY & STEEL
 318 CITY SERVICE HIGHWAY
 SUIPHUR, IA 70663

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

SPECIFICATIONS: Tested in accordance with ASTM specification A6/A6M-22 and A370-22. Tested in accordance with EN10204-2004-3.1.

RASTD : M270-50-23
 ASTM : A992-22/A992-19/A529-19-50/A5725021T1/A7095021
 CSR : G40,2150W

Part #	Description	Heat#	Grade(s)	Yield/ Tensile Ratio	Yield (PSI)	Tensile (MPa)	Elong %	C	Cr	Mn	Mo	Ti	P	Sn	S	B	Si	V	N	Cu	ND	Ni	CI	CE1	CE2	Pcm
W12X40		1408229		.80	56000	69900	25.00	.08	.04	1.06	.00	.001	.009	.0056	.020	.0004	.27	.002	.0063	.10	.031	.04	.04	.27	.3218	.1482
020' 00.00'		A992-22		.81	386	482	22.00	.04	.04	.00	.001	.001	.0056	.0056	.0004	.0004	.002	.002	.0063	.031	.031	2.94	.04	.3218	.1482	
W310X60		55300		.81	55300	68100	22.00	.04	.04	.00	.001	.001	.0056	.0056	.0004	.0004	.002	.002	.0063	.031	.031	2.94	.04	.3218	.1482	
006.0960m		381		.81	381	470	4 Pc(s)	3,200 lbs	Customer PO: P025191601	BoH: 1792439																
W12X40		2408225		.81	56900	69900	25.00	.07	.04	1.08	.01	.001	.009	.0045	.016	.0003	.25	.002	.0036	.08	.031	.03	.03	.26	.3102	.1362
020' 00.00'		A992-22		.81	392	482	24.00	.04	.04	.01	.001	.001	.0045	.0045	.0003	.0003	.002	.002	.0036	.031	.031	2.54	.03	.3102	.1362	
W310X60		55300		.81	55300	68200	24.00	.04	.04	.01	.001	.001	.0045	.0045	.0003	.0003	.002	.002	.0036	.031	.031	2.54	.03	.3102	.1362	
006.0960m		381		.81	381	470	4 Pc(s)	3,200 lbs	Customer PO: P025191601	BoH: 1792439																
W4X13		1414376		.82	55800	68300	24.00	.07	.05	.86	.01	.001	.011	.0063	.024	.0003	.21	.002	.0052	.11	.026	.05	.05	.24	.2782	.1336
020' 00.00'		A992-22		.82	385	471	24.00	.05	.05	.01	.001	.001	.011	.0063	.0003	.0003	.002	.002	.0052	.11	.026	.05	.05	.24	.2782	.1336
W100X19.3		54700		.81	54700	67800	24.00	.05	.05	.01	.001	.001	.011	.0063	.0003	.0003	.002	.002	.0052	.11	.026	.05	.05	.24	.2782	.1336
006.0960m		377		.81	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 Dept. 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 department." CE1 = C+(Mn/5)+(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



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

SPECIFICATIONS: Tested in accordance with ASTM specification A6/A6M-22 and A370-22. Tested in accordance with EN10204-2004-3.1.

RASTRO : M270-50-23
 ASTM : A992-22;A36-19/A529-19-50/A5725021T1/A7095021
 CSA : G40.2150WM

Description	Heat	Yield/Tensile	Yield/Tensile	Elong	C	Mn	P	S	Si	Cu	Ni	CE1
Part #	Grade(s)	Ratio	(PSI)	%	Cr	Mo	Sb	B	V	Nb	Cl	CE2
W4X13	2407512	.80	58100	24.00	.07	.81	.011	.026	.21	.17	.06	.24
020' 00.00'	A992-22	.81	401	4.98	.05	.01	.0067	.0003	.001	.026	.12	.2762
W100X19.3	2407512	.81	56200	25.00	.07	.81	.011	.026	.21	.17	.06	.24
006.0960m	A992-22	.81	387	4.81	.05	.01	.0067	.0003	.001	.026	.12	.2762
W4X13	2407512	.81	55200	25.00	.06	.80	.011	.014	.20	.10	.06	.22
040' 00.00'	A992-22	.81	381	4.71	.05	.01	.0062	.0002	.002	.027	.01	.2611
W100X19.3	2407512	.81	55600	20.00	.06	.80	.011	.014	.20	.10	.06	.22
012.1920m	A992-22	.81	383	4.72	.05	.01	.0062	.0002	.002	.027	.01	.2611
W4X13	2407517	.81	54600	26.00	.07	.85	.010	.015	.18	.10	.05	.23
040' 00.00'	A992-22	.81	376	4.63	.05	.01	.0068	.0002	.002	.028	.05	.2698
W100X19.3	2407517	.81	54400	24.00	.07	.85	.010	.015	.18	.10	.05	.23
012.1920m	A992-22	.81	375	4.61	.05	.01	.0068	.0002	.002	.028	.05	.2698

Elongation based on 8" (20.32cm) gauge length. 'No Weld Repair' was performed. 'All mechanical testing is performed by the Quality Department'.
 CI = 26.01(Cu+3.88Ni+1.20Cr+1.49Si+17.28P-(7.29CuXNi)-(9.10NiXP)-33.39(CuXCu) testing lab, which is independent of the production department.
 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/Tensile	Yield/Tensile	Elong	C	Mn	P	S	Si	Cu	Ni	CE1
Part #	Grade(s)	Ratio	(PSI)	%	Cr	Mo	Sb	B	V	Nb	CI	CE2
	Test/Heat		(MPa)		***	Ti	***	***	N	***	***	PCm
W6X15	1411432	.85	60200	27.00	.07	1.04	.009	.018	.29	.07	.03	.26
020' 00.00'	A992-22	.84	415	490	.04	.00	.0038	.0003	.002	.031	.3111	.3111
W150X22.5	59200	.84	59200	27.00	.07	1.04	.009	.018	.29	.07	.03	.26
006.0960m	408	.84	408	487	.04	.001	.0038	.0003	.0064	.031	2.43	.1373
							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	.3128
W150X22.5	58100	.84	58100	28.00	.07	1.05	.011	.018	.27	.09	.03	.26
006.0960m	401	.84	401	476	.05	.001	.0045	.0002	.0057	.031	2.80	.1373
							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	.3154
W150X37.1	68300	.82	68300	26.00	.07	1.07	.010	.012	.24	.07	.03	.27
006.0960m	385	.82	385	471	.05	.001	.0042	.0003	.0052	.031	2.41	.1437
							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+Ni) testing lab, which is independent of the production department.
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 CE2 = C+((Mn+Si)/6)+((Cr+Mo+V+Cb)/5)+((Ni+Cu)/15)

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 CSA : G40.2150WM

Part #	Description	Heat Grade(s)	Yield/ Tensile Ratio	Yield (PSI)	Tensile (MPa)	Elong %	C		Mn		P		S		Si		Cu		Ni		CE1	CE2	Pcm	
							Cr	*****	Mo	Ti	Sn	*****	B	*****	V	N	ND	*****	CI	*****				
W6X25	020' 00.00'	2411335	.81	53100	68100	25.00	.07	.06	.01	.008	.013	.025	.07	.03	.26	.3094	.1373							
W150X37.1	006.0960m	A992-22	.79	380	470	24.00	.04	.01	.001	.0038	.0002	.0036	.032	2.33										
W6X9	020' 00.00'	2407734	.84	58100	69100	25.00	.07	.03	.01	.011	.017	.020	.11	.06	.23	.2706	.1296							
W150X13.5	006.0960m	A992-22	.86	401	476	27.00	.04	.01	.001	.0068	.0002	.0052	.026	3.15										
W6X9	020' 00.00'	2407737	.84	58300	69600	25.00	.07	.05	.01	.012	.018	.019	.11	.05	.23	.2710	.1280							
W150X13.5	006.0960m	A992-22	.86	402	480	27.00	.04	.01	.001	.0077	.0002	.0065	.028	3.18										

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-(7.29Cu+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).


RASTRD : M270-50-23
 ASTM : A992-22;A36-19/A529-19-50/A5725021T1/A7095021
 CSA : G40.2150WM

Part #	Description	Heat Grade(s)	Test/Heat JW	Yield Tensile Ratio	Yield (PSI) (MPa)	Tensile (PSI) (MPa)	Elong %	C Cr	Mn Mo Ti	P S	Sn B	Si V N	Cu Ni	MB CI	CE1 CE2 Pcm
W8X21	020' 00.00'	A992-22	1410340	.82	57700	67700	28.00	.07	.80	.010	.015	.22	.09	.04	.22
W200X31.3	020' 00.00'	A992-22	8992-22	.83	55600	67000	28.00	.05	.01	.0049	.0002	.002	.031	2.73	.2618
W8X21	006.0960m	A992-22	2410345	.84	56100	67100	28.00	.06	.84	.011	.015	.19	.09	.04	.23
W200X31.3	006.0960m	A992-22	8992-22	.84	55600	66400	29.00	.06	.01	.0048	.0002	.0061	.028	2.71	.2650
W8X40	020' 00.00'	A992-22	2406217	.79	55700	70400	29.00	.07	.01	.009	.020	.29	.12	.06	.27
W200X39	006.0960m	A992-22	8992-22	.79	54900	69600	26.00	.06	.01	.0046	.0003	.0071	.027	3.42	.3218
W200X39	006.0960m	A992-22	8992-22	.79	54900	69600	26.00	.06	.01	.0046	.0003	.0071	.027	3.42	.3218

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 CE1 = C+(Mn/6)+((Cr+Mo+V)/5)+(Ni+Cu)/15)
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 CSA : G40.2150WM

Description Part #	Heat Grade(s) Test/Heat JW	Yield/ Tensile Ratio	Yield (PSI) (MPa)	Tensile (PSI) (MPa)	Elong %	C		Mn		P		S		Si		Cu		Ni		CE1 CE2 Pcm
						Cr	*****	Mo	Ti	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
W8X40 020' 00.00'	1410792 A992-22	.79	54300	68700	27.00	.07	1.07	.01	.02	.012	.018	.025	.24	.10	.03	.26	.27	.3048		
W200X39 006.0960m	2410783 A992-22	.79	54600	68800	26.00	.05	.01	.01	.012	.0043	.0003	.0069	.030	3.02	.1358					
			375	474	4 P c(s)		3,200 lbs	Customer PO: P025191601	BoH: 1792439											

17 Heat(s) for this MTR.

=====
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 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/5)+((Cr+Mo+V)/5)+((Ni+Cu)/15)
 CE2 = C+(Mn+Si)/6)+((Cr+Mo+V+Cb)/5)+((Ni+Cu)/15)
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