

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

CERTIFIED MILL TEST REPORT

9/20/24 15:49:14
 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

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

Customer #: 808 - 1
 B.O.L. H...: 1786103
 MOS: T

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/A529-19-50/A5725021T1/A7095021
 CSR : G40,2150W

Part #	Description	Heat#	Grade(s)	Yield/ Tensile Ratio	Yield (MPa)	Tensile (MPa)	Elong %	C Cr	Mn Mo Ti	P S	Si V N	Cu ND	Ni CI	CE1 CE2
M6X4.4	040' 00.00'	2409330	A529-19-50	.94	71300	76000	20.00	.07	.86	.009	.014	.21	.08	.23
M152X6.5	012.1920m	492	A529-19-50	.93	492	524	19.00	.04	.01	.0037	.0002	.002	.007	.2642
M6X4.4	012.1920m	492	A529-19-50	.93	492	529	15 Pc(s)	2,640 lbs	.01	.001	.0035	.0035	.007	.1242
M6X4.4	040' 00.00'	2409335	A529-19-50	.93	72600	78100	19.00	.07	.83	.007	.016	.21	.07	.22
M152X6.5	012.1920m	493	A529-19-50	.93	501	538	19.00	.04	.01	.0037	.0002	.002	.008	.2600
M6X4.4	012.1920m	493	A529-19-50	.93	493	530	15 Pc(s)	2,640 lbs	.001	.001	.0047	.0047	.003	.1247
W12X26	1411513	.80	56300	70700	24.00	.07	1.00	.009	.021	.23	.16	.05	.26	
020' 00.00'	A992-22	.79	388	487	23.00	.04	.01	.0076	.0004	.002	.029	.05	.3021	
W310X38.7	56500	71400	23.00	.01	.001	.0070	.029	4.05	.1380					
006.0960m	390	492	6 Pc(s)	3,120 lbs	Customer PO: P025180901	BoH: 1786103								

Elongation based on 8" (20.32cm) gauge length. No Weld Repair was performed. All mechanical testing is performed by the Quality Department. 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.

CE1 = C+(Mn/6)+((Cr+Mo+V)/5)+((Ni+Cu)/15)
 CE2 = C+((Mn+Si)/6)+((Cr+Mo+V+Cb)/5)+((Ni+Cu)/15)

Emma Summers
 Metallurgist /
 Quality Control

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 318 CITY SERVICE HIGHWAY
 SULPHUR, IA 70663
 Customer #: 808 - 1
 B.O.I. H...: 1786103
 MOS: 1

SPECIFICATIONS: Tested in accordance with ASTM specification A6/A6M-22 and A370-22. Tested in accordance with EN10204-2004-3.1.
 Quality Manual Rev H19 (11-30-22).

RASTD0 : M270-50-23
 ASTM : A992-22/A529-19-50/A57250211/A7095021
 CSA : G40.2150WM

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	Nb	Ni	CE1	CE2	Pcm
W6X13	2410085	A992-22	.81	56400	69600	23.00	.07	.07	.84	.01	.01	.011	.011	.019	.0002	.022	.002	.0036	.09	.029	.04	.23	.2753	.1302
W100X19.3	57500	A992-22	.83	57500	69400	24.00	.05	.05	.01	.001	.001	.0050	.0050	.0002	.0002	.0036	.0036	.0036	.09	.029	.04	.23	.2753	.1302
006.0960m	396			396	479	16 Pct(s)	4,160 lbs					Customer	PO: P025180901						BoH: 1786103					
W6X15	1411397	A992-22	.84	59200	70300	27.00	.07	.07	1.06	.01	.01	.010	.010	.018	.0003	.027	.002	.0051	.09	.032	.05	.27	.3183	.1420
W150X22.5	60200	A992-22	.83	60200	72500	26.00	.05	.05	.01	.001	.001	.0050	.0050	.0003	.0003	.0051	.0051	.0051	.09	.032	.05	.27	.3183	.1420
006.0960m	415			415	500	36 Pct(s)	10,800 lbs					Customer	PO: P025180901						BoH: 1786103					
W6X20	1411494	A992-22	.81	54600	67200	26.00	.07	.07	1.01	.01	.01	.008	.008	.017	.0003	.023	.002	.0057	.11	.028	.04	.26	.2997	.1363
W150X29.8	54500	A992-22	.80	54500	67800	26.00	.04	.04	.01	.001	.001	.0050	.0050	.0003	.0003	.0057	.0057	.0057	.11	.028	.04	.26	.2997	.1363
006.0960m	376			376	467	9 Pct(s)	3,600 lbs					Customer	PO: P025101801						BoH: 1786103					

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-(7.29Cu+Ni)-(9.10Ni+P))-33.39(Cu+Cu)
 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)

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/
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 PO BOX 2388 318 CITY SERVICE HIGHWAY B.O.I. H...: 1786103

SULPHUR, IA 70664 SULPHUR, IA 70663 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/A529-19-50/A57250211/A7095021
 CSA : G40.2150WM

Part #	Description	Heat Grade(s)	Yield Tensile (MPa)	Yield Tensile (PSI)	Elong %	C	Mn	P	S	Si	Cu	Ni	CE1
Test/Heat	Test/Heat	Ratio	(MPa)	(PSI)	%	Cr	Mo	Sn	B	V	Nb	CI	CE2
W6X9	020' 00.00'	A992-22	59200	69300	27.00	.07	.83	.009	.016	.18	.09	.04	.23
W150X13.5	020' 00.00'	A992-22	408	479	26.00	.04	.01	.0049	.0002	.002	.025	.2604	
006.0960m			58100	68700	26.00	.01	.001	.0049	.0002	.0063	.025	.2604	
			401	474	21 Pc(s)	3,780 lbs	Customer PO: P025146201				BoH: 1786103		.1248
W8X13	020' 00.00'	A992-22	57900	68100	29.00	.07	.81	.007	.017	.20	.12	.04	.22
W200X19.3	020' 00.00'	A992-22	399	470	28.00	.03	.01	.0043	.0001	.002	.028	3.27	.2624
006.0960m			57500	68400	28.00	.01	.001	.0043	.0001	.0053	.028	3.27	.1262
			396	472	14 Pc(s)	3,640 lbs	Customer PO: P025180901				BoH: 1786103		
W8X15	020' 00.00'	A992-22	56000	67000	28.00	.07	.82	.011	.018	.24	.10	.04	.23
W200X22.5	020' 00.00'	A992-22	386	462	27.00	.05	.01	.0043	.0002	.002	.028	2.98	.2734
006.0960m			56200	67500	27.00	.01	.001	.0043	.0002	.0053	.028	2.98	.1285
			387	465	12 Pc(s)	3,600 lbs	Customer PO: P025146201				BoH: 1786103		

Elongation based on 8" (20.32cm) gauge length. 'No Weld Repair' was performed. 'All mechanical testing is performed by the Quality Dept. = 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 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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Part #	Description	Heat Grade(s)	Yield/Tensile Ratio	Yield (PSI)	Tensile (PSI)	Elong %	C	Cr	Mn	Mo	P	S	Si	Cu	Ni	CE1
W8X24	020' 00.00'	2411253	.80	57400	71400	25.00	.07	.04	1.07	.01	.011	.017	.24	.09	.04	.26
W200X35.9	006.0960M	A992-22	.82	58800	71900	25.00	.04	.04	.01	.001	.0048	.0003	.002	.031	2.74	.3083
W8X24	020' 00.00'	2411257	.80	57300	71500	26.00	.07	.04	1.03	.01	.009	.018	.25	.09	.04	.26
W200X35.9	006.0960M	A992-22	.80	56800	71200	24.00	.04	.04	.001	.001	.0048	.0003	.0059	.031	2.80	.3103
							4 Pc(s)		1,920 lbs		Customer PO: P025180901		BolH: 1786103			

11 Heat(s) for this MTR.

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