

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

CERTIFIED MILL TEST REPORT

11/14/24 5:57:44
 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.I. H...: 1795201
 MOS: 1

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

RASTD0 : M270-50-23
 ASTM : A992-22/A936-19/A529-19-50/A5725021T1/A7095021
 CSR : G40,2150W

Part #	Description	Heat#	Grade(s)	Test/Heat	Yield/ Tensile Ratio	Yield (MPa)	Tensile (MPa)	Elong %	C Cr	Mn Mo Ti	P S	Si V N	Cu ND	Ni CI	CE1 CE2	
C12X20.7		2412727			.83	58900	71100	24.00	.07	1.03	.008	.014	.21	.10	.04	.26
020' 00.00'		A992-22			.86	406	490	25.00	.04	.01	.0048	.0002	.002	.030	.3024	
C310X30.8		60800				60800	71000	25.00		.001		.0038		2.89	.1368	
006.0960m		419				419	490	8 P c(s)	3,312 lbs		Customer PO: P025275701			BoH: 1795201		
S3X5.7		2409404			.81	60000	74300	24.00	.07	.87	.012	.018	.24	.10	.04	.24
020' 00.00'		A992-22			.82	414	512	25.00	.06	.01	.0049	.0002	.002	.015	.2797	
S75X8.5		60800				60800	74200	25.00		.001		.0048		2.97	.1294	
006.0960m		419				419	512	35 P c(s)	3,990 lbs		Customer PO: P025275701			BoH: 1795201		
S8X23		2408410			.81	57200	71000	25.00	.07	1.08	.010	.019	.30	.10	.05	.27
020' 00.00'		A992-22			.82	394	490	25.00	.05	.01	.0055	.0004	.002	.031	.3304	
S200X34		58300				58300	71500	25.00		.001		.0045		3.13	.1466	
006.0960m		402				402	493	16 P c(s)	7,360 lbs		Customer PO: P025275701			BoH: 1795201		

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 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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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).

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) (MPa)	%	Cr	Mo	Sb	B	V	Nb	CI	CE2
W6X16	1404763	.81	53500	29.00	.07	.81	.006	.016	.24	.11	.03	.22
020' 00.00'	A992-22	.82	383	471	.04	.01	.0049	.0003	.002	.027	.03	.2655
W130X23.8	55200	.82	55200	27.00	.04	.01	.0049	.0003	.0048	.027	.03	.2655
006.0960m	381	.81	465	12 Pc(s)	3,840 lbs	.001	Customer PO: P025275701		.0048	.027	.03	.1246
BOH: 1795201												
W6X15	2414584	.86	63600	26.00	.07	1.09	.010	.021	.25	.18	.10	.29
020' 00.00'	A992-22	.86	439	508	.07	.02	.0079	.0004	.002	.032	.44	.3343
W150X22.5	62800	.86	62800	25.00	.07	.01	.0079	.0004	.0059	.032	.44	.1492
006.0960m	433	.86	505	45 Pc(s)	13,500 lbs	.001	Customer PO: P025275701		.0059	.032	.44	.1492
BOH: 1795201												
W6X15	2414584	.86	63600	26.00	.07	1.09	.010	.021	.25	.18	.10	.29
020' 00.00'	A992-22	.86	439	508	.07	.02	.0079	.0004	.002	.032	.44	.3343
W150X22.5	62800	.86	62800	25.00	.07	.01	.0079	.0004	.0059	.032	.44	.1492
006.0960m	433	.86	505	9 Pc(s)	2,700 lbs	.001	Customer PO: P025191601		.0059	.032	.44	.1492
BOH: 1795201												

Elongation based on 8" (20.32cm) gauge length. 'No Weld Repair' was performed. 'All mechanical testing is performed by the Quality Department.'
 CI = 26.01Cr+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.
 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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RASTRO : M270-50-23
 ASTM : A992-22;A36-19/A529-19-50/A5725021T1/A7095021
 CSA : G40.2150WM

Part #	Description	Heat	Yield/ Tensile Ratio	Yield (PSI)	Tensile (PSI)	Elong %	C	Cr	Mn	Mo	Ti	P	Sn	S	B	Si	V	N	Cu	Nb	Ni	CE1	CE2	Pcm
W6X15	020' 00.00'	2414584	.86	63600	73700	26.00	.07	.109	1.09	.02	.010	.021	.025	.004	.002	.032	.0039	.18	.032	.44	.10	.29	.3343	.1492
W150X22.5	006.0960m	A992-22	.86	62800	73200	25.00	.07	.102	.001	.0079	.0004	.0004	.0039	.0004	.00039	.0039	.0039	.18	.032	.44	.10	.29	.3343	.1492
W8X24	020' 00.00'	2415760	.80	58000	72400	25.00	.07	.103	1.03	.03	.011	.024	.022	.003	.002	.028	.029	.15	.029	.56	.15	.29	.3353	.1497
W200X35.9	006.0960m	A992-22	.80	58300	72900	25.00	.10	.101	.001	.001	.0160	.0003	.0070	.0003	.0070	.0070	.0070	.28	.029	5.56	.15	.29	.3353	.1497
W8X31	020' 00.00'	1415206	.79	55200	69700	20.00	.07	.101	1.01	.01	.016	.022	.002	.002	.022	.022	.022	.22	.022	.06	.06	.28	.3190	.1445
W200X46.1	006.0960m	A992-22	.81	57300	70600	24.00	.10	.101	.001	.001	.0071	.0003	.0066	.0003	.0066	.0066	.0066	.22	.029	4.90	.06	.28	.3190	.1445

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

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

Part #	Description	Heat Grade(s)	Tensile Ratio	Yield (PSI)	Tensile (MPa)	Elong %	C Cr	Mn Mo Ti	P S	S B	Si V N	Cu NB	Ni CI	CE1 CE2 Pcm
W8X31		1415208	.81	57400	71000	25.00	.07	1.11	.015	.025	.24	.22	.06	.29
020' ,00,00'		A992-22		396	490	23.00	.09	.01	.0068	.0003	.002	.032	.3407	
W200X46,1			.80	56800	70900	23.00		.001			.0063		4.95	.1524
006,0960m				392	489			Customer PO: P025275701					BoH: 1795201	

10 Heat(s) for this MTR.

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 CI = 26.01(Cu+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/Cr)/(Cr+Mo+V)/5)+((Ni+Cu)/15)
 CE2 = C+((Mn+Si)/6)+((Cr+Mo+V+Cb)/5)+((Ni+Cu)/15)
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