

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

CERTIFIED MILL TEST REPORT

8/28/24 21:17:47
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: P025116901
B.O.I. #: 1782102
MOS: T

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

RASTED : M270-50-23

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

CSA : G40.2150W

Description	Heat#	Yield/	Yield Tensile	Elong	C	Mn	P	S	Si	Cu	Ni	CE1
Part #	Test/Heat #	Grade(s)	Ratio	(PSI) (MPa)	Cr	Mo	Sn	B	V	Nb	Cl	CE2
S8X23	2408410	A992-22	.81	57200	71000	25.00	.07	1.08	.010	.019	.30	.27
020' 00.00"	A992-22		.82	394	490	25.00	.05	.01	.0055	.0004	.002	.3304
S200X34	58300			71500				.001	.0045			.1466
006.0960m	402			493				8 pc(s)	3,680 lbs	Customer PO: P025116901	BoH: 1782102	

W10X22	1407276	.85	57400	67200	27.00	.07	.81	.008	.016	.18	.09	.04	.22
020' 00.00"	A992-22		396	463		.03	.01	.0049	.0003	.001	.027		.2512
W250X32.7		.84	56500	67000	29.00		.001			.0077		2.69	.1204
006.0960m			390	462				Customer	PO: P025116901	BoH: 1782102			

W4X13	1410065	.82	56000	68000	24.00	.07	.87	.011	.014	.20	.11	.04	.23
020' 00.00"	A992-22		386	469		.05	.01	.0061	.0002	.002	.029		.2705
W100X19.3		.82	55100	66900	24.00		.001			.0076		3.06	.1252
006.0960m			380	461				Customer PO: P025116901	BoH: 1782102				

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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+3.88Mn+1.20Cr+1.49Si+17.28P-(7.29CuMn)-(9.10MnSP)-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
CE1 = C+(Mn/6)+(Cr+Mo+V)/5+(Ni+Cu)/15
CE2 = C+(Mn+Si)/6+(Cr+Mo+V+Cu)/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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Ridger, SC 29450
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SULPHUR, LA 70663

Customer #: 808 - 1
Customer PO: P025116901
B.O.I. #: 1782102
MOS: I

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).

RASTED : M270-50-23
ASTM : A992-22/A529-19-50/A5725021T1/A7095021
CSA : G40.2150W

Description	Heat#	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 #					*****		*****	*****		*****		
W5X16	1404747	.83	56300	67500	26.00	.07	.81	.008	.013	.19	.09	.03	.22
020' 00.00'	A992-22		388	465	26.00	.05	.00	.0047	.0002	.002	.027		.2575
W130X23.8		.82	55000	66300	26.00		.001			.0079			.1221
006.0960m			379	461	12	Pc(s)	3,840 lbs	Customer PO: P025116901			BoH: 1782102		

W6X15	1411432	.85	60200	71000	27.00	.07	1.04	.009	.018	.29	.07	.03	.26
020' 00.00'	A992-22		415	490	27.00	.04	.00	.0038	.0003	.002	.031		.3111
W150X22.5		.84	59200	70600	27.00		.001	Customer PO: P025116901		.0064		2.43	.1373
006.0960m			408	487	8	Pc(s)	2,400 lbs				BoH: 1782102		

W6X15	2411435	.85	60800	71800	26.00	.07	1.04	.010	.017	.25	.09	.04	.26
020' 00.00'	A992-22		419	495	24.00	.04	.01	.0041	.0002	.002	.027		.3106
W150X22.5		.84	62300	74000	24.00		.001	Customer PO: P025116901		.0066		2.82	.1405
006.0960m			430	510	1	Pc(s)	300 lbs				BoH: 1782102		

Elongation based on 8" (20.32cm) gauge length. 'No Weld Repair' was performed. "All mechanical testing is performed by the quality testing lab, which is independent of the production departments"

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

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

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Emma Summers
Metallurgist/
Quality Control

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tightly added at any point during manufacturing

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Customer #: 808 - 1
Customer PO: P025116901
B.O.I. #: 1782102
MOS: I
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AASHTO : M270-50-23
ASTM : A992-22/A529-19-50/A5725021T1/A7095021
CSA : G40.2150WM

Flowation based on 8" (20.32cm) gauge length. 'No Weld Repair' was performed. 'All mechanical testing is performed by the Quality CI = 26.0(Cu+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 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

Ernst Schumacher

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

RASTED : M270-50-23

ASTM : A992-22/A929-19-50/A5725021T1/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
W8X24	2411253	.80	57400	25.00	XXXXXX	.07	.01	.017	.024	.09	.04	.26
020' 00.00'	A992-22	.82	396	492	.04	.01	.0048	.0003	.002	.031		.3083
W200X35.9			58800	71900		.001			.0066		2.74	.1361
006.0960m			405	496			Customer PO: P025116901			BoH: 1782102		
W8X31	2410745	.81	56100	69000	.07	1.09	.013	.022	.029	.09	.04	.27
020' 00.00'	A992-22	.81	387	476	.06	.01	.0045	.0003	.002	.030		.3270
W200X46.1			56100	69000		.001			.0045		2.95	.1429
006.0960m			387	476			Customer PO: P025116901			BoH: 1782102		

11 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

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

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