

NUCOR STEEL - BERKELEY
 1455 Hagan Avenue
 Ridger, SC 29450
 Phone: (843) 336-6000

CERTIFIED MILL TEST REPORT

9/20/24 15:49:14
 100% ERF 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
 Customer #: 808 - 1
 B.O.I. H...: 1786103
 MOS: I

Quality Manual Rev H19 (11-30-22)
 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/A9529-19-50/A57250211/A7095021
 CSA : G40.2150W

Description	Heat	Yield/	Yield Tensile	Elong	C	Mn	P	S	Si	Cu	Ni	CE1
Part #	Grade(s)	Tensile	(PSI)	%	Cr	Mo	Su	B	V	Nb	Cl	CE2
	Test/Heat	Ratio	(MPa)		*****	Ti	*****	*****	N	*****	*****	Pcm
M6X4.4	2409330	.94	71300	20.00	.07	.86	.009	.014	.21	.08	.04	.23
040' 00.00'	A529-19-50	.93	492	19.00	.04	.01	.0037	.0002	.002	.007	2.45	.2642
M152X6.5	71300	.93	71300	19.00	.04	.01	.0037	.0002	.0035	.007	2.45	.1242
012.1920m	492	.93	492	15 Pc(s)	2,640 lbs	.001	Customer PO: P025146201		.0035	.007	1786103	
M6X4.4	2409335	.93	72600	19.00	.07	.83	.007	.016	.21	.07	.03	.22
040' 00.00'	A529-19-50	.93	501	19.00	.04	.01	.0037	.0002	.002	.008	2.33	.2600
M152X6.5	71500	.93	71500	19.00	.04	.01	.0037	.0002	.0047	.008	2.33	.1247
012.1920m	493	.93	493	15 Pc(s)	2,640 lbs	.001	Customer PO: P025146201		.0047	.008	1786103	
W12X26	1411513	.80	56300	24.00	.07	1.00	.009	.021	.23	.16	.05	.26
020' 00.00'	A992-22	.79	388	23.00	.04	.01	.0076	.0004	.002	.029	4.05	.3021
W310X38.7	56500	.79	56500	6 Pc(s)	3,120 lbs	.001	Customer PO: P025180901		.0070	.029	1786103	.1380
006.0960m	492	.79	492	6 Pc(s)	3,120 lbs	.001	Customer PO: P025180901		.0070	.029	1786103	

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)
 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 /
 Quality Control



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 SULPHUR, IA 70663

Customer #: 808 - 1
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 Quality Manual Rev #19 (11-30-22).

RASTRD : M270-50-23
 ASIM : A992-22;A529-19-50/A57250211/A7095021
 CSA : G40.2150WM

Part #	Description	Heat Grade(s)	Test/Heat JW	Yield/Tensile Ratio	Yield (PSI)	Tensile (MPa)	Elong %	C Cr	Mn Mo	P S	Si V	Cu Ni	CE1 CE2
W4X13	020' 00.00'	A992-22	2410085	.81	56400	69600	23.00	.07	.84	.011	.019	.09	.23
W100X19.3	006.0960m		4892-22	.83	389	480	24.00	.05	.01	.0050	.002	.029	.2753
W6X15	020' 00.00'	A992-22	1411397	.84	59200	70300	27.00	.07	1.06	.010	.018	.09	.27
W150X22.5	006.0960m		4892-22	.83	408	485	26.00	.05	.01	.0050	.003	.032	.3183
W6X20	020' 00.00'	A992-22	1411494	.81	54600	67200	26.00	.07	1.01	.008	.017	.11	.26
W150X29.8	006.0960m		4892-22	.80	376	463	26.00	.04	.01	.0050	.003	.028	.2997
W6X20	020' 00.00'	A992-22	1411494	.81	54600	67200	26.00	.07	1.01	.008	.017	.11	.26
W150X29.8	006.0960m		4892-22	.80	376	463	26.00	.04	.01	.0050	.003	.028	.2997

Elongation based on 8" (20.32cm) gauge length. 'No Weld Repair' was performed. 'All mechanical testing is performed by the Quality
 CR = 26.01Cr+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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 SUIPHUR, IA 70663
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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).

RASTRD : M270-50-23
 ASIM : A992-22;A529-19-50/A57250211/A7095021
 CSA : G40.2150WM

Part #	Description	Heat Grade(s)	Test/Heat JW	Yield/Tensile Ratio	Yield (PSI)	Tensile (MPa)	Elong %	C Cr	Mn Mo	P S	S B	Si V	Cu NB	Ni CI	CE1	CE2	Pcm
W6X9	020' 00.00'	A992-22	1409619	.85	59200	69500	27.00	.07	.83	.009	.016	.18	.09	.04	.23	.2604	.1248
W150X13.5	020' 00.00'	A992-22	408	.85	408	479	26.00	.04	.01	.0049	.0002	.0063	.025	2.70	.23	.2604	.1248
006.0960m			58100		68700				.001								
			401		474		21 Pc(s)	3,780 lbs	Customer PO: P025146201	BoH: 1786103							
W8X13	020' 00.00'	A992-22	2401572	.85	57900	68100	29.00	.07	.81	.007	.017	.20	.12	.04	.22	.2624	.1262
W200X19.3	020' 00.00'	A992-22	399	.84	57500	68400	28.00	.03	.01	.0043	.0001	.0053	.028	3.27	.22	.2624	.1262
006.0960m			396		472		14 Pc(s)	3,640 lbs	Customer PO: P025180901	BoH: 1786103							
W8X15	020' 00.00'	A992-22	2405900	.84	56000	67000	28.00	.07	.82	.011	.018	.24	.10	.04	.23	.2734	.1285
W200X22.5	020' 00.00'	A992-22	386	.83	56200	67500	27.00	.05	.01	.0043	.0002	.0053	.028	2.98	.23	.2734	.1285
006.0960m			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 Department'.
 CR = 26.01Cr+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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Part #	Description	Heat Grade(s)	Test/Heat JW	Yield/Tensile Ratio	Yield (PSI)	Tensile (MPa)	Elong %	C Cr	Mn Mo Ti	P Sn	S B	Si V N	Cu Nb	Ni CI	CE1 CE2 Pcm		
W8X24	020' 00.00'	2411253	A992-22	.80	57400	71400	25.00	.07	.01	.011	.017	.24	.09	.04	.26		
W200X35.9	006.0960M	2411253	A992-22	.82	58800	71900	25.00	.04	.01	.0048	.0003	.0066	.031	2.74	.3083		
W8X24	020' 00.00'	2411257	A992-22	.80	57300	71500	26.00	.07	.01	.009	.018	.25	.09	.04	.26		
W200X35.9	006.0960M	2411257	A992-22	.80	56800	71200	24.00	.04	.001	.0048	.0003	.0059	.031	2.80	.3103		
								Customer PO: P025180901								BoH: 1786103	

11 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
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