

NUCOR STEEL - BERKELEY
 P.O. Box 2259
 Mt. Pleasant, S.C. 29464
 Phone: (843) 336-6000

CERTIFIED MILL TEST REPORT

8/10/15 13:40:58
 100% EAF MELTED AND MANUFACTURED IN THE USA
 All beams produced by Nucor-Berkeley are cast and
 rolled to a fully killed and fine grain practice.
 Mercury has not been used in the direct manufacturing of this material.

Sold To: ACEROMEX SA DE CV
 CARRETERA MONTERREY LAREDO KM
 MONTERREY, NL 65550

Ship To: DIX SHIPPING PORT OF IAMPICO
 TERMINAL MUELLES FISCALES
 CPI MUELLES FISCALES, TM
 IAMPICO, TM 89000

Customer #: 3962 - 2
 Customer PO: 4500129651
 B.o.I. #: 1150406
 MOS: B

SPECIFICATIONS: Tested in accordance with ASTM specification A5/A5M-14 and A370. Quality Manual Rev #5 (2-3-15).
 AASHTO : M270-50-10
 ASME : SA-36 13
 ASIM : A992-11/A36-14/A529-14-50/A572 S015/A709-5013a
 CSA : G40.2150WM/G40.2150WMT

Description Part #	Heat# Grade(s) Test/Heat JW	Yield/ Tensile Ratio	Yield (PSI) (MPa)	Tensile (PSI) (MPa)	Elong %	C Cr	Mn Mo Ti	P Sn	S B	Si V N	Cu Nb	Ni CI	CE1 CE2 Pcm
C12X20.7 020' 00.00' C310X30.8 006.0960m	1509165 A992-11	.80	54700 377 56300 388	68200 470 67600 466	25.80	.07 .04	.88 .00 .001	.015 .0042	.018 .0003	.21 .003 .0046	.07 .032	.03	.23 .2706 .1269
						8 Pc(s) 3,312 lbs						Inv#:	0
C12X20.7 020' 00.00' C310X30.8 006.0960m	2509162 A992-11	.82	55500 383 56100 387	67800 467 67400 465	26.11	.07 .02	.82 .01 .001	.009 .0060	.020 .0004	.22 .004 .0041	.08 .029	.03	.22 .2620 .1249
						80 Pc(s) 33,120 lbs						Inv#:	0
C12X20.7 040' 00.00' C310X30.8 012.1920m 27.67	1509151 A992-11	.82	54500 376 54400 375	66600 459 67800 467	25.56	.07 .02	.80 .00 .001	.011 .0036	.025 .0003	.24 .003 .0039	.07 .026	.02	.21 .2588 .1230
						7 Pc(s) 5,796 lbs						Inv#:	0
C12X20.7 040' 00.00' C310X30.8 012.1920m 27.67	2509148 A992-11	.82	56100 387 55900 385	68500 472 67800 467	25.74	.07 .02	.84 .00 .001	.012 .0046	.020 .0004	.20 .004 .0053	.07 .025	.02	.22 .2607 .1272
						33 Pc(s) 27,324 lbs						Inv#:	0

Elongation based on 8" (20.32cm) gauge length. 'No Weld Repair' was performed. Hg free and no contact with Hg during manufacture.
 $CI = 26.01Cu + 3.88Ni + 1.20Cr + 1.49Si + 17.282 - (7.29Cu \times Ni) - (9.10Ni \times P) - 33.39(Cu \times Cu)$
 $CE1 = C + (Mn/6) + ((Cr+Mo+V)/5) + ((Ni+Cu)/15)$
 $Pcm = C + (Si/30) + (Mn/20) + (Cu/20) + (Ni/60) + (Cr/20) + (Mo/15) + (V/10) + 5B$
 $CE2 = C + ((Mn+Si)/6) + ((Cr+Mo+V+Cb)/5) + ((Ni+Cu)/15)$

I hereby certify 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.

Bruce R. Work
 Mill Manager
 Quality Control