

SOLD TO: FORTACERO S A DE C V
BLVD PRESIDENTE CARLOS SALINAS
DE GORTARI KM 8 B
APODACANL 66600
MEXICO

NUCOR
NUCOR CORPORATION
NUCOR STEEL TEXAS

CERTIFIED MILL TEST REPORT

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SHIP TO: FORTACERO - MEXICO CITY (RAIL)
1430 INDUSTRIAL BLVD
EAGLE PASS, TX 78852-

Ship from:
Nucor Steel - Texas
8812 Hwy 79 W
JEWETT, TX 75846
800-527-6445

Date: 4-Nov-2011
B.L. Number: 587670
Load Number: 197627

Material Safety Data Sheets are available at www.nucorbar.com or by contacting your inside sales representative.

NBMG-08 March 9, 2011

HEAT NUM. *	DESCRIPTION	PHYSICAL TESTS				CHEMICAL TESTS													
		YIELD P.S.I.	TENSILE P.S.I.	ELONG % IN 8"	BEND	WT% DEF	C	Ni	Mn	Cr	P	Mo	S	V	Si	Cb	Cu	Sn	C.E.
PO# => JW1110951501	4500082297 Nucor Steel - Texas 1/2x4" Flat 20' A36 ASTM A36/A36M-08, A709/A709M-09a GR36, ASME SA36-07 Ed 09 Ad	43,100 297MPa	61,600 425MPa	25.0%			.11 .16		.62 .11		.009 .046		.030 .002		.20 .001		.30		.28
PO# => JW1110951601	4500082297 Nucor Steel - Texas 1/2x4" Flat 20' A36 ASTM A36/A36M-08, A709/A709M-09a GR36, ASME SA36-07 Ed 09 Ad	44,200 305MPa	62,500 431MPa	25.0%			.11 .17		.67 .14		.011 .047		.030 .002		.19 .001		.31		.29
PO# => JW1110954401	4500083402 Nucor Steel - Texas 4x5.4# Channel 20' A36/A529GR50 ASTM A36-08, A529-05, A709-09a G R36, ASME SA36-07 Ed 09 Ad	52,400 361MPa	72,300 498MPa	20.0%			.15 .14		.79 .17		.014 .041		.042 .003		.20 .008		.34		
PO# => JW1110954401	4500083402 Nucor Steel - Texas 4x5.4# Channel 40' A36/A529GR50 ASTM A36-08, A529-05, A709-09a G R36, ASME SA36-07 Ed 09 Ad	52,400 361MPa	72,300 498MPa	20.0%			.15 .14		.79 .17		.014 .041		.042 .003		.20 .008		.34		
PO# => JW1110954501	4500083402 Nucor Steel - Texas 4x5.4# Channel 20' A36/A529GR50 ASTM A36-08, A529-05, A709-09a G R36, ASME SA36-07 Ed 09 Ad	54,600 376MPa	72,100 497MPa	21.0%			.10 .17		.81 .16		.010 .054		.045 .002		.19 .013		.32		

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.
1.) Weld repair was not performed on this material.
2.) Melted and Manufactured in the United States.
3.) Mercury, Radium, or Alpha source materials in any form have not been used in the production of this material.

QUALITY ASSURANCE: Nathan Stewart



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HEAT NUM. *	DESCRIPTION	PHYSICAL TESTS				CHEMICAL TESTS									
		YIELD P.S.I.	TENSILE P.S.I.	ELONG % IN 8"	BEND	WT% DEF	C	Ni	Mn	P	S	Si	Cu	Sn	C.E.
PO# => JW1110955201	4500083402 Nucor Steel - Texas 4x5.4# Channel 20' A36/A529GR50 ASTM A36-08, A529-05, A709-09a G R36, ASME SA36-07 Ed 09 Ad	56,800	72,400	26.0%			.12	.88	.010	.030	.22	.29			
		392MPa	499MPa				.11	.13	.028	.002	.012				
		55,500	70,100	23.0%			CE4020	CEA529							
		383MPa	483MPa				0.33	0.36							
PO# => JW1110955301	4500083402 Nucor Steel - Texas 4x5.4# Channel 20' A36/A529GR50 ASTM A36-08, A529-05, A709-09a G R36, ASME SA36-07 Ed 09 Ad	58,200	68,600	20.0%			.11	.86	.011	.033	.20	.30			
		401MPa	473MPa				.16	.15	.035	.002	.013				
		57,000	72,400	22.0%			CE4020	CEA529							
		393MPa	499MPa				0.32	0.36							
PO# => JW1110971701	4500083402 Nucor Steel - Texas 4x4x1/2 Angle 20' A36/A529GR50 ASTM A36-08, A529-05, A709-09a G R36, ASME SA36-07 Ed 09 Ad	54,200	75,400	23.0%			.11	.85	.021	.041	.19	.31			
		374MPa	520MPa				.15	.23	.041	.003	.022				
		56,100	78,100	21.0%			CE4020	CEA529							
		387MPa	538MPa				0.34	0.37							
PO# => JW1110971901	4500083402 Nucor Steel - Texas 4x4x1/2 Angle 20' A38/A529GR50 ASTM A36-08, A529-05, A709-09a G R36, ASME SA36-07 Ed 09 Ad	54,700	72,500	23.0%			.11	.84	.020	.046	.19	.43			
		377MPa	500MPa				.17	.23	.041	.002	.016				
		55,200	74,700	24.0%			CE4020	CEA529							
		381MPa	515MPa				0.34	0.38							

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