## OPS 12 × 30 Kg Imt

DATE	9/17/10
INVOICE NO.	367631
BILL OF LADING	997789
CUSTOMER NO.	0829
CUSTOMER P.O.	4500070612

## **NUCOR-YAMATO STEEL CO.**

P.O. BOX 1228 • BLYTHEVILLE, AR 72316

S H	FORTACERO C/O GULF STEAM MARINE
ï	PORT OF BROWNSVILLE
Р	
т	BROWNSVILLE, TX
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## **CERTIFIED MILL TEST REPORT**

100% MELTED AND MANUFACTURED IN U.S.A.
All shapes produced by Nucor-Yamato Steel are cast
and rolled to a fully killed and fine grain practice.

ASTM A36/A36M-08 ASME SA36-01 ASTM A709/A709M-09 GR36 (250) ASTM A6/A6M-09

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CIFICAT

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ACL 00 9989

S	
0	FORTACERO S.A. DE CV
L	BLVD CARLOS SALINAS DE GORTARI
D	KM 8.8
_	APODACA, N.L. MEXICO 66600
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				MECHANICAL PROPERTIES												CHEMI	ÇAL PR	OPERTI	ES	Γ	ī		Τ
TEM	ITEM DESCRIPTION	QTY	HEAT#	YIELD	YIELD STRENGTH	TENSKE STRENGTH	ELONG	CHARPY IMPACT TEMP IMPACT ENERGY			С	Mn	Р	s	Si	Cu	Ni	Cr	Мо	٧	Сь	CE	
	!			TENSIL E	PSI	PSI		*.E	FT-L8S					į						Sn	Pcm		CI
				RATIO	MPa.	MPa	%	c	,	JOULE:	S 									├	<b></b>		· .
	C12 - 20.7	161	353921		51000 53000	65000 66000	24 26					.07	.70	.009	.023	.24	.29	.11	.07	.03	.00	.009	.24
	C310 x 31.8				352	448	24	i		-			l										
	12.192 M				365	455	.26			}		:	į										
2	C12 - 20.7	258	353924	.81	54000		26			1		.07	.71	.013	.032	.23	.32	.12	.15	.03	.00	.009	.26
	40'				55000		24												,	.01	.14		
	C310 x 31.8				372	462	26			İ	Ιi												
	12.192 M				379		24																ļ
3	C12 - 20.7	265	353927	.79	53000	67000	25					.08	.70	.013	.022	.24	.28	.11	.10	.03	.00	.008	.26
	40'			.79	54000	68000	27							:	}					.01	.15		]
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	C12 - 20.7	30	353936	.82	59000		23					.08	. 90	.014	.024	.23	.30	,11	,12	.03	.00	.021	.29
	40'			1 1	60000		22				!	•••				,,,,		,		.01	•	• • • •	
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	C12 - 20.7	23	353938	. 85	60000		25					.07	. 91	.015	.027	.23	.28	.12	.14	) 3	.00	.015	.28
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	40'		332310		58000		24					,	• • • •	.010	].020					.01	.15	,,,,,	""
	C310 x 31.8				400	490	23											i		,,,			ĺ
	12.192 M			į	400	490	24											,					
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Prim	*C+21+701+701+701+701+		B=Appms J005	CARH	ON EQUIVA	ILENT: CE =	CE(JIW) =	C + Mn	/6 + (C	r+Mo+V	L N5 + (Ni	+CuVI3 I	Corres	ilon Indez: Ci	1-24.01(% Cu1	+2.68/5/ND+1		40(%\$()+17	28(%P)-7.29	(% Cu)(%MIH	D. TOCKHINK P	)-32.38(%Cu	, 2
	30 20 20 50 20	15 10	· .			has not been										,		.,,.,				,	-

ELONGATION BASED ON 8.00 INCH GAUGE LENGTH

I hereby certify that the contents of this report are accurate and correct. All test results and operations performed by this material manufacturer are in compliance with the requirements of the material specifications listed in the Specifications Block above.

Day Lemell

QUALITY ASSURANCE

CUSTOMER COPY

STATE OF ARKANSAS COUNTY OF MISSISSIPPLENE NATIONAL SWORN TO AND SUBSCRIBED BEFORE METALS

17 09/10

\_\_NOTARY REPLIC

Charlene Walling
MY COMMISSION EXPIRES

10/21/2010 PPICO AND

NOTARY

PUBLIC