



APM Division de: IMSA-MEX, SA DE CV

Reference: Miprcert1e.Rpt
Date: 26 Mar 2004

Page: 1 of 1

TEST CERTIFICATE No. MTY 560700

1/811

A3555-1

Ship from:
APM Division de: IMSA-MEX, SA DE CV
Churubusco #1000
Col. Santa Fé
Monterrey, Nuevo León 64540
Tel. 8329-5000 Fax: 8329-5024

P/O No. 4500017357
S/O No. MTY 55268 / 22
B/L No. MTY 538443 / 1
Inv No. MTY

Shp. 26/03/2004

Sold to: (867)
FORTACERO, S. A. DE C. V.
BLVD.CARLOS SALINAS DE GORTARI
KM 8.8
APODACA, NUEVO LEON
RFC: FOR-960524-JP8 66600

Ship to:
FORTACERO, S. A. DE C. V.
BLVD.CARLOS SALINAS DE GORTARI
KM 8.8

APODACA, NL 66600

CERTIFICATE OF ANALYSIS AND TEST Cert. No. MTY 560700

RC0.500X48.00-A36 RCD.5X4
ROLLO DE AC. ROL. EN CAL.ASTM A36
GaN 12.70 mm x Ancho 1220 mm (GaN 0.5000 in. x Ancho X48.00-A36 RCD.5X4 in.)

Heat	Properties	Tag	Pcs.	Weight	Width
0420932	PCED=41.3-41.3[PCED=284.85(0.00-0.00)] / RTEN=65.6-65.6[RTEN=452.46(0.00-0.00)] / %ELON=40-40 / APRO=<JAESTRAD> / THICKNESS=12.7200	691304A	1	18,100	48.7795

1 18,100

Heat	**** Chemical Analysis ****
0420932	C=0.171 Mn=0.667 Si=0.187 P=0.0107 S=0.0077 Al=0.0348

THE MECHANICAL TESTS RESULTS ARE IN KPSI [MPa] AND THE PERCENT OF ELONGATION IS IN 2" OF CALIBRATED LENGTH. FOR ANY QUESTION WE JUST ACCEPT THEM FROM THE CUSTOMER ABOVE MENTIONED AND WITH THE ORIGINAL DOCUMENT. WE HEREBY CERTIFY THAT THE INFORMATION HERE REPORTED IS CORRECT AND EXIST IN THE FILES OF THE COMPANY.

The equipment and test methods used for to get the results above described as apply, are as follows:

- Hardness-ASTM E 18-02- Hardness Tester-LA-E-0002.LA-E-0003
- Cup Erichsen Test- ASTM E 643-84(2000)- T.O. Cup Tester-LA-E-0005
- Tensile Test-ASTM E 8-01,ASTM A 370-01, ASTM E-517-01, ASTM E-646-00
- T.O.Tensile Machine-LA-E-0001, LA-E-0083
- Grain Size- ASTM E 112-96,-Metallurgical Microscope Nikon LA-E-0006
- Non Metallic Inclusions-ASTM E 45-97 - Metallurgical Microscope Nikon LA-E-0006
- Magnetic Properties-ASTM A 343-97- Epstein Tester LA-E-0058

LABORATORY'S CHIEF

61938