



# APM Division de: IMSA-MEX, SA DE CV

Reference: Mipcert1a.Rpt  
Date: 30 Nov 2003

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## TEST CERTIFICATE No. MTY 530698

**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. 4500015984

S/O No. MTY 52739 / 11

B/L No. MTY 506826 / 6

Inv No. MTY

Shp. 28/11/2003

**Sold to:**

(274)

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 MEXICO FFCC  
ESTACION PANTACO  
ESCAPE 04-801-94

MEXICO. D.F.

66600

### CERTIFICATE OF ANALYSIS AND TEST

Cert. No. MTY 530698

RFB24X4 0.024X48.00 7-11 EM

ROL.FRI.REC.TEM.SIN.ACEITSAB-1008

GaN 0.61 mm x Ancho 1220 mm (GaN 0.0239 in. x Ancho X4 0.024X48.00 7-11 EM in.)

RFB24X4

Heat	Properties	Tag	Pcs.	Weight	Width
C00044582	110176 HRB/APRO<<RIS>> THICKNESS=0.6190	651817H	1	8,870	48.2283

1

8,870

Heat	**** Chemical Analysis ****
C00044582	C=0.05 Mn=0.21 P=0.004 S=0.005 Al=0.047

THE MECHANICAL TESTS RESULTS ARE IN PSI 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