



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

Reference: Miprcert1e.Rpt  
Date: 28 Jul 2004

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## TEST CERTIFICATE No. MTY 587648

**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. 100000297

S/O No. MTY 59575 / 4

B/L No. MTY 566666 / 1

Inv No. MTY

**A5810**

Shp. 28/07/2004

**Sold to:**

(1269)

PLESA ANAHUAC Y CIA. S.A. DE C.V.

AV. VALLE DE LAS ALAMEDAS # 66-O

COL. SAN FRANCISCO CHILPAN

TULTITLAN. EDO. DE MEXICO

RFC: PAC-040303-UY6 CP 54940

**Ship to:**

PLESA ANAHUAC Y CIA. S.A. DE C.V.

AV. VALLE DE LAS ALAMEDAS # 66-O

COL. SAN FRANCISCO CHILPAN

TULTITLAN. EDO. DE MEXICO

RFC: PAC-040303-UY6 CP 54940

### CERTIFICATE OF ANALYSIS AND TEST

Cert. No. MTY 587648

RC0.500X60.000-APMA36 20TN

ROLLO DE AC. ROL. EN CAL.ASTM A36

GaN 12.70 mm x Ancho 1524 mm (GaN 0.5000 in. x Ancho X60.000-APMA36 20TN in.)

002153

Heat	Properties	Tag	Pcs.	Weight
0421863	PCED=37.7-37.7/RTEN=63.9-63.9/%ELON=40-40/APRO=<JAESTRAD>/ THICKNESS=12.7160	722284A	1	12,140
0421863	PCED=37.7[PCED=260.02(0.00-0.00)] / RTEN=63.9[RTEN=440.73(0.00-0.00)] / %ELON=40 / APRO=<JOE> / THICKNESS=12.7330	722286A	1	12,950

2

25,090

Heat	**** Chemical Analysis ****
0421863	C=0.194 Mn=0.6179 Si=0.197 P=0.0127 S=0.005 Al=0.0326

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, JIS Z 2245-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, DIN 10002-1,

DIN 10130, JIS Z 2241, JIS Z 2201, JIS Z 2253, JIS Z 2254

Bend Test- ISO7438, JIS Z 2248, JIS Z 2204

- T.O.Tensile Machine-LA-E-0001, LA-E-0083

Grain Size- ASTM E 112-96,-Metallurgical Microscope Nikon LA-E-0006

LABORATORY'S CHIEF