

APM Division de: IMSA-MEX, SA DE CV



TEST CERTIFICATE No. MTY 572393

A 1877

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. 100000113

S/O No. MTY 58277 / 3

B/L No. MTY 551007 / 1

Inv No. MTY

Shp. 16/05/2004

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.
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CERTIFICATE OF ANALYSIS AND TEST Cert. No. MTY 572393

RC0.375X60.000-APMA36 18TN
ROLLO DE AC. ROL. EN CAL.ASTM A36
GaN 9.53 mm x Ancho 1524 mm (GaN 0.3750 in. x Ancho X60.000-APMA36 18TN in.)

| Heat | Properties | Tag | Pcs. | Weight |
|---------|---|---------|------|--------|
| 0431319 | PCED=43.7-43.7[PCED=301.41(0.00-0.00)] / RTEN=65.7-65.7[RTEN=453.15(0.00-0.00)] / %ELON=38-38 / APRO=<JIMENEZ> / THICKNESS=9.5500 | 706933A | 1 | 12,880 |
| 0421265 | PCED=48.3-48.3[PCED=333.13(0.00-0.00)] / RTEN=67.7-67.7[RTEN=466.94(0.00-0.00)] / %ELON=36-36 / APRO=<JIMENEZ> / THICKNESS=9.5450 | 706934A | 1 | 12,866 |

2

25,746

| Heat | **** Chemical Analysis **** |
|---------|--|
| 0421265 | C=0.1879 Mn=0.769 Si=0.187 P=0.0095 S=0.007 Al=0.04 |
| 0431319 | C=0.183 Mn=0.662 Si=0.156 P=0.0087 S=0.004 Al=0.0397 |

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
- Magetic Properties-ASTM A 343-97- Epstein Tester LA-E-0058

LABORATORY'S CHIEF