



APM Division de: IMSA-MEX, SA DE CV

Reference: Miprcert1e.Rpt
Date: 28 May 2004

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TEST CERTIFICATE No. MTY 575137

A3045

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. 100000014
S/O No. MTY 58282 / 4
B/L No. MTY 553669 / 2
Inv No. MTY

Shp. 28/05/2004

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

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TULTITLAN. EDO. DE MEXICO
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CERTIFICATE OF ANALYSIS AND TEST Cert. No. MTY 575137

RC0.375X48.00-APM50M 7-20T
ROLLO DE AC. ROL. EN CAL. ASTM A572 GR.50
GaN 9.53 mm x Ancho 1220 mm (GaN 0.3750 in. x Ancho X48.00-APM50M 7-20T in.)
PLA-A572/50-3.8-ROLL4

| Heat | Properties | Tag | Pcs. | Weight |
|---------|---|---------|------|--------|
| 0430956 | PCED=71.3-71.3[PCED=491.77(0.00-0.00)] / RTEN=85.5-85.5[RTEN=589.71(0.00-0.00)] / %ELON=30.6-30.6 / APRO=<JAESTRAD> THICKNESS=9.5190 | 709238A | 1 | 20,854 |

1 20,854

| Heat | **** Chemical Analysis **** |
|---------|---|
| 0430956 | Al=0.037 C=0.087 Mn=0.918 P=0.0102 S=0.004 Si=0.0253 |

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