



APM Division de: IMSA-MEX, SA DE CV

A 1963

TEST CERTIFICATE No. MTY 572397

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 / 5
B/L No. MTY 551013 / 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

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PLESA ANAHUAC Y CIA. S.A. DE C.V.
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CERTIFICATE OF ANALYSIS AND TEST Cert. No. MTY 572397

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
0421267	PCED=40.4-40.4[PCED=278.65(0.00-0.00)] / RTEN=65.1-65.1[RTEN=449.01(0.00-0.00)] / %ELON=42-42 / APRO=<JIMENEZ> / THICKNESS=12.7190	706923A	1	12,760
0410839	PCED=42.3-42.3[PCED=291.75(0.00-0.00)] / RTEN=64.5-64.5[RTEN=444.87(0.00-0.00)] / %ELON=40.5-40.5 / APRO=<JIMENEZ> / THICKNESS=12.7160	706924A	1	12,726
0410840	PCED=40.9-40.9[PCED=282.10(0.00-0.00)] / RTEN=63-63[RTEN=434.52(0.00-0.00)] / %ELON=40-40 / APRO=<JIMENEZ> / THICKNESS=12.7140	706925A	1	12,770

3

38,256

Heat	**** Chemical Analysis ****
0410839	C=0.1729 Mn=0.726 Si=0.176 P=0.0082 S=0.0032 Al=0.0403
0410840	C=0.184 Mn=0.671 Si=0.16 P=0.0093 S=0.015 Al=0.0462
0421267	C=0.186 Mn=0.705 Si=0.169 P=0.0087 S=0.007 Al=0.0443



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Reference: Miprcert1e.Rpt
Date: 16 May 2004

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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