

APM Division de: IMSA-MEX, SA DE CV

A5003

TEST CERTIFICATE No. MTY 582873



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 / 4
B/L No. MTY 561693 / 1
Inv No. MTY

Shp. 04/07/2004

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
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CERTIFICATE OF ANALYSIS AND TEST Cert. No. MTY 582873

RC0.500X48.000-APMC36 18TN
ROLLO DE AC. ROL. EN CAL.ASTM A36
GaN 12.70 mm x Ancho 1220 mm (GaN 0.5000 in. x Ancho X48.000-APMC36 18TN in.)
002152

Heat	Properties	Tag	Pcs.	Weight
0422436	PCED=44.6[PCED=307.62(0.00-0.00)] / RTEN=68.4[RTEN=471.77(0.00-0.00)] / %ELON=34 / APRO=<JOE> / THICKNESS=12.7090	717878A	1	18,200
0442316	PCED=37[PCED=255.20(0.00-0.00)] / RTEN=64.6[RTEN=445.56(0.00-0.00)] / %ELON=39.2 / APRO=<JOE> / THICKNESS=12.7120	717881A	1	18,265
0442317	PCED=49.8-49.8/RTEN=60.5-60.5/%ELON=40.6-40.6/APRO=<JAESTRAD> / THICKNESS=12.7130	717882A	1	18,275
0442316	PCED=37.7[PCED=260.02(0.00-0.00)] / RTEN=68.3[RTEN=471.08(0.00-0.00)] / %ELON=26 / APRO=<JOE> / THICKNESS=12.7100	717883A	1	18,320

4 73,060

Heat	**** Chemical Analysis ****
0422436	C=0.202 Mn=0.725 Si=0.146 P=0.0105 S=0.0047 Al=0.0378
0442316	C=0.178 Mn=0.69 Si=0.136 P=0.0099 S=0.006 Al=0.0425
0442317	C=0.184 Mn=0.6919 Si=0.118 P=0.0092 S=0.0089 Al=0.0354

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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

A handwritten signature in black ink, appearing to be 'M. J. ...', is written over a horizontal line.

LABORATORY'S CHIEF