



APM Division de: IMSA-MEX, SA DE CV

Reference: Miprcert1e.Rpt
Date: 23 Mar 2004

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TEST CERTIFICATE No. MTY 558955

4941

TFM 63026

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. 100000089
S/O No. MTY 56019 / 3
B/L No. MTY
Inv No. MTY 536498 / 1

Shp. 19/03/2004

Sold to: (924)
PLESA ANAHUAC.S.A. DE C.V
AV. VALLE DE LAS ALAMEDAS # 66-A
COL. SAN FRANCISCO CHILPAN
TULTITLAN. EDO. DE MEXICO
RFC: PAN-810423-7L9 CP 54940

Ship to:
PLESA ANAHUAC.S.A. DE C.V
AV. VALLE DE LAS ALAMEDAS # 66-A
COL. SAN FRANCISCO CHILPAN
TULTITLAN. EDO. DE MEXICO
RFC: PAN-810423-7L9 CP 54940

CERTIFICATE OF ANALYSIS AND TEST Cert. No. MTY 558955

002034 RCT0.105X48.00-1010
R. ACE. ROL. EN CAL TEMP. SAE-1010
GaN 2.67 mm x Ancho 1220 mm (GaN 0.1050 in. x Ancho X48.00-1010 in.)
002034

Heat	Tag	Pcs.	Weight
0420521 HRB=60/APRO=<IAJ>/ THICKNESS=2.6890	686815B	1	19,880
0410481 HRB=60/APRO=<IAJ>/ THICKNESS=2.6940	686817B	1	10,375
0410481 HRB=60/APRO=<IAJ>/ THICKNESS=2.6940	686817C	1	10,345

3

40,600

Heat	**** Chemical Analysis ****
0410481	C=0.0939 Mn=0.328 Si=0.0214 P=0.0064 S=0.006 Al=0.037
0420521	C=0.09 Mn=0.35 Si=0.0289 P=0.0067 S=0.0063 Al=0.0516



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THE MECHANICAL TESTS RESULTS ARE IN KPSI 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
Magnetic Properties-ASTM A 343-97- Epstein Tester LA-E-0058
Chemical Analysis -ASTM E 415-95 A- Optical Emission Spectrometer
The uncertainty by equipment as apply is documented in the calibration report.

LABORATORY'S CHIEF