



APM Division de: IMSA-MEX, SA DE CV

TEST CERTIFICATE No. MTY 470736

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. 11757
S/O No. MTY 44583 / 3
B/L No. MTY 446004 / 1
Inv No. MTY

Shp. 13/03/2003

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:
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CERTIFICATE OF ANALYSIS AND TEST Cert. No. MTY 470736

RC3123600-APMC36 17T
ROLLO DE AC. ROL. EN CAL. ASTM A36
GaN 7.94 mm x Ancho 924 mm (GaN 0.3125 in. x Ancho 36.3780 in.)

Heat	Properties	Tag	Pcs.	Weight
0340626	PCED=54.2(36-60)[PCED=373.83(248.30-413.83)] / RTEN=74(58-80)[RTEN=510.39(400.04-551.78)] / %ELON=34.2(23-45) / APRO=<ALL> / THICKNESS=7.9370 (7.9380+0.1397,-0.1397)	592769A	1	16,180
0320575	PCED=54.6(36-60)[PCED=376.59(248.30-413.83)] / RTEN=73.6(58-80)[RTEN=507.63(400.04-551.78)] / %ELON=34.8(23-45) / APRO=<ALL> / THICKNESS=7.9370 (7.9380+0.1397,-0.1397)	592771A	1	16,155

2 **32,335**

Heat	**** Chemical Analysis ****
0320575	C=0.2032 Mn=0.7246 Si=0.2005 P=0.0126 S=0.0085 Al=0.0429 Cu=0.025 Cr=0.0062 Ni=0.0144 Mo=0.0019 Sn=0.0022 N=0.0036 Cb=0.0029 B=0.0002 Ti=0.002
0340626	C=0.204 Mn=0.632 Si=0.157 P=0.0131 S=0.008 Al=0.0396 Cu=0.0405 Cr=0.011 Ni=0.0136 Mo=0.0013 Sn=0.001 N=0.0042 Cb=0.0025 V=0.0005 Ca=0.0004 Ti=0.0023

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

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LABORATORY'S CHIEF