

# APM Division de: IMSA-MEX, SA DE CV



## TEST CERTIFICATE No. MTY 572018

A2029

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 / 2  
B/L No. MTY 550533 / 1  
Inv No. MTY

Shp. 14/05/2004

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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### CERTIFICATE OF ANALYSIS AND TEST Cert. No. MTY 572018

RC0.375X48.000-APMC36 18TN  
ROLLO DE AC. ROL. EN CAL.ASTM A36  
GaN 9.53 mm x Ancho 1220 mm (GaN 0.3750 in. x Ancho X48.000-APMC36 18TN in.)

Heat	Properties	Tag	Pcs.	Weight
0421267	PCED=45.2-45.2[PCED=311.75(0.00-0.00)] / RTEN=66.4-66.4[RTEN=457.97(0.00-0.00)] / %ELON=38-38 / APRO=<JAESTRAD> / THICKNESS=9.5160	705768A	1	18,105
0410840	PCED=43.6-43.6[PCED=300.72(0.00-0.00)] / RTEN=67-67[RTEN=462.11(0.00-0.00)] / %ELON=36-36 / APRO=<JAESTRAD> / THICKNESS=9.5190	705769A	1	17,950

2      36,055

Heat	**** Chemical Analysis ****
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

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