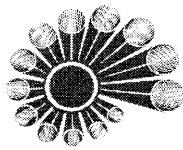


FLM-005-7



PROCARSA, S.A. DE C.V.

**CERTIFICADO DE CALIDAD  
DE PRUEBAS FISICAS-QUIMICAS**

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE: PLESA ANAHUAC Y CIAS. S.A. DE C.V.

CUSTOMER:

NUMERO PTM-78815-2011

NUMBER

PEDIDO CLIENTE / P.O.

PEDIDO INTERNO / I.O. 3278

FECHA

DATE MARZO 02, 2011

PARTIDA (S)

ITEMS 109340-80

DIAMETRO :

DIAMETER : 18"

ESPEJOR DE PARED

WALL THICKNESS

0.375"

GRADO :

GRADE :

ASTM A53-B

PRESION HIDROSTATICA:

HIDROSTATIC TEST:

62 Kg/cm<sup>2</sup>

880 PSI

## PRUEBAS DE TENSION

## TENSILE TEST

## ANALISIS QUIMICO % EN PESO

## CHEMICAL ANALYSES PERCENT WEIGHT

NUM.PROBETA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. 2"	LE/UT Y.S.T.S	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ce
2-13 Tc Ts	102264	53 182	68 090 73 238	40	0.78	0.142	0.84	0.018	0.005	0.002	0.043	0.028	0.001	0.003	0.019	0.003	0.004	0.340	0.019	0.003	
3-12 Tc Ts	102265	53 712	67 241 73 747	40	0.79	0.126	0.79	0.021	0.006	0.002	0.032	0.024	0.002	0.005	0.017	0.005	0.004	0.313	0.015	0.003	

CERTIFICAMOS QUE LA TUBERIA AQUÍ DESCRITA CUMPLE Y HA SIDO FABRICADA, MUESTREADA, PROBADA E INSPECCIONADA DE ACUERDO CON LOS REQUISITOS APLICABLES DE LA ESPECIFICACION:

ASTM -06

WE CERTIFY THE PIPE ABOVE MENTIONED ACCOMPLISH AND HAS BEEN MANUFACTURED, SAMPLED, TESTED AND INSPECTED IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF SPECIFICATIONS:

ING. ALEJANDRO ALARSON CAZARES  
SUPERVISOR DE LABORATORIO METALURGICO  
METALLURGICAL LABORATORY SUPERVISOR