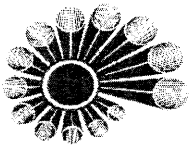


FLM-005-7



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-79000-2011

PEDIDO CLIENTE / P.O.

PEDIDO INTERNO / I.O.

3454

FECHA

DATE

MARZO 31, 2011

PARTIDA (S)

ITEMS

116652-40

DIAMETRO :

DIAMETER : 10 3/4"

ESPESOR DE PARED

WALL THICKNESS

0.365"

GRADO :

GRADE :

ASTM A53-B

PRESION HIDROSTATICA:

HIDROSTATIC TEST:

101 Kg/cm<sup>2</sup>

1,430 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/U.T Y.S/T.S	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
8-3 Tc Ts	109671	52 120	64 738 68 780	37	0.80	0.107	0.76	0.015	0.005	0.002	0.002	0.002	0.225	0.030	0.034	0.002	0.024	0.025	0.007	0.0060	
7-10 Tc Ts	208488	56 780	68 486 74 663	40	0.82	0.121	0.82	0.018	0.006	0.001	0.003	0.004	0.248	0.028	0.042	0.002	0.019	0.021	0.007	0.0054	
9-14 Tc Ts	209137	53 406	63 330 70 682	43	0.84	0.111	0.79	0.016	0.004	0.003	0.002	0.003	0.243	0.026	0.034	0.004	0.019	0.025	0.007	0.0056	

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. LUIS ALFONSO DE LOS SANTOS RIVERA  
SUPERVISOR DE LABORATORIO METALURGICO  
METALLURGICAL LABORATORY SUPERVISOR