

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.

NUMERO PTM-71332-2008  
NUMBER

CUSTOMER:

PEDIDO CLIENTE / P.O.

1318

FECHA

MAYO 26, 2008

PARTIDA (S)

ITEMS 93322-10 / 93440-20

DIAMETRO: 10 3/4" ESPESOR DE PARED

WALL THICKNESS

0.365"

GRADO:

ASTM A53-B

PRESION HIDROSTATICA:

1430 PSI

HIDROSTATIC TEST: 101 kg/cm<sup>2</sup>

## 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"	LEUIT Y.S.T.S	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
31-8 Tc Ts	180753	53 682	65 253 73 344	42	0.82	0.113	0.80	0.019	0.004	0.001	0.003	0.005	0.303	0.010	0.035	0.0016	0.020	0.020	0.005	0.0052	
6-9 Tc Ts	180754	52 779	64 212 72 453	40	0.82	0.143	0.78	0.018	0.005	0.001	0.003	0.005	0.307	0.010	0.036	0.002	0.030	0.020	0.004	0.0063	
49-9 Tc Ts	181178	52 778	64 815 68 504	42	0.81	0.144	0.81	0.015	0.005	0.001	0.003	0.005	0.315	0.020	0.042	0.0022	0.020	0.030	0.009	0.0049	
51-12 Tc Ts	181180	52 206	65 896 67 301	35	0.79	0.124	0.79	0.016	0.006	0.001	0.003	0.005	0.318	0.010	0.042	0.0018	0.020	0.020	0.004	0.0048	
36-3 Tc Ts	280715	54 032	64 210 67 353	39	0.84	0.125	0.78	0.015	0.005	0.001	0.003	0.005	0.308	0.060	0.050	0.0021	0.020	0.030	0.008	0.0056	
35-9 Tc Ts	280717	53 673	64 298 72 769	42	0.83	0.124	0.77	0.018	0.005	0.001	0.004	0.005	0.291	0.020	0.042	0.002	0.020	0.030	0.007	0.0048	
9-10 Tc Ts	280724	54 215	65 510 71 924	42	0.82	0.110	0.77	0.017	0.005	0.001	0.004	0.005	0.281	0.020	0.036	0.002	0.040	0.020	0.005	0.0046	
37-5 Tc Ts	281000	51 142	63 788 67 645	37	0.80	0.134	0.76	0.021	0.007	0.001	0.004	0.005	0.300	0.010	0.038	0.002	0.020	0.020	0.006	0.0050	
40-9 Tc Ts	281003	54 155	64 613 67 051	40	0.83	0.148	0.77	0.018	0.006	0.001	0.003	0.005	0.300	0.020	0.035	0.002	0.040	0.020	0.008	0.0057	

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

ASTM A53-B -06

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

ING. FERNANDO OSORIO PEREZ  
GERENTE DE ASEGURAMIENTO DE CALIDAD  
QUALITY ASSURANCE MANAGER