



FLM-405-7

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-72757-2008

CUSTOMER:

1860

FECHA

OCTUBRE 04, 2008

PEDIDO CLIENTE / P.O.

79946-10 / 80704-10 / 82212-10 / 92756-10 / 94430-30

DATE

PEDIDO INTERNO / I.O.

1860

PARTIDA (S)

79946-10 / 80704-10 / 82212-10 / 92756-10 / 94430-30

ITEMS

ANALISIS QUIMICO % EN PESO

92 Kg/cm<sup>2</sup>

1310 PSI

HOJA 2 DE 2

TAMANO SIZE: 16"

ESPESOR DE PARED WALL THICKNESS

0.500"

GRADO: GRADE:

ASTM A53-B

PRESION HIDROSTATICA: HYDROSTATIC TEST:

ANALISIS QUIMICO % EN PESO

92 Kg/cm<sup>2</sup>

1310 PSI

HOJA 2 DE 2

PRUEBAS DE TENSION

CHEMICAL ANALYSES PERCENT WEIGHT

TENSILE TEST					CHEMICAL ANALYSES PERCENT WEIGHT															
NUM. PROBEA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. 2"	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
14-3 TC TS	182265	48 264	64 898 67 860	39	0.74	0.124	0.76	0.012	0.008	0.003	0.004	0.310	0.020	0.037	0.0038	0.020	0.020	0.020	0.009	0.0072
72-6 TC TS	263552	62 985	82 898 87 414	32	0.76	0.166	1.05	0.015	0.005	0.010	0.004	0.280	0.060	0.037	0.0027	0.030	0.030	0.006	0.0039	
133-6 TC TS	263707	57 621	72 477 82 009	34	0.80	0.169	1.03	0.009	0.004	0.009	0.003	0.282	0.020	0.029	0.0024	0.010	0.030	0.005	0.0073	
90-12 TC TS	263708	61 042	79 201 85 417	35	0.77	0.170	1.05	0.020	0.004	0.010	0.004	0.291	0.040	0.033	0.0028	0.010	0.020	0.005	0.0060	
6-12 TC TS	270230	75 925	83 910 89 985	30	0.90	0.170	1.04	0.016	0.005	0.010	0.005	0.320	0.030	0.036	0.0026	0.020	0.020	0.008	0.0054	
70-3 TC TS	270233	61 350	73 483 86 288	40	0.83	0.179	1.06	0.013	0.008	0.009	0.006	0.350	0.020	0.043	0.0025	0.030	0.020	0.008	0.0058	
23-6 TC TS	272426	63 615	75 074 83 530	40	0.85	0.161	1.14	0.014	0.004	0.010	0.004	0.321	0.010	0.039	0.0022	0.020	0.020	0.004	0.0070	
7-9 TC TS	274257	65 852	76 014 75 361	37	0.87	0.068	0.71	0.015	0.004	0.032	0.003	0.150	0.200	0.036	0.0021	0.020	0.020	0.005	0.0069	
2-9 TC TS	274258	63 072	74 455 75 741	37	0.85	0.057	0.69	0.012	0.004	0.033	0.003	0.180	0.220	0.041	0.0022	0.020	0.030	0.008	0.0067	
14-8 TC TS	275093	65 108	72 271 75 415	36	0.90	0.078	0.68	0.013	0.004	0.033	0.004	0.189	0.210	0.034	0.0016	0.010	0.030	0.004	0.0049	
28-10 TC TS	279344	67 271	82 945 85 176	37	0.81	0.068	0.92	0.016	0.003	0.044	0.004	0.196	0.220	0.038	0.0015	0.020	0.030	0.009	0.0068	

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

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

ASTM A53-B -06

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