



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:
 PEDIDO CLIENTE / P.O.
 PEDIDO INTERNO / I.O. 2309
 PARTIDA (S)
 ITEMS 93322-10 / 101404-10 / 102283-30 / 102476-20

NUMERO PTM-74939-2009
 NUMBER
 FECHA
 DATE MAYO 11, 2009


DIAMETRO : ESPESOR DE PARED GRADO : PRESION HIDROSTATICA:
 DIAMETER : 10 3/4" WALL THICKNESS 0.365" GRADE : ASTM A53-B HYDROSTATIC TEST: 101 Kg/cm² 1430 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	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	0.002	0.020	0.020	0.005	0.0052	
11-5 Tc Ts	188374	53 857	65 604 72 695	39	0.82	0.131	0.79	0.023	0.006	0.001	0.003	0.005	0.306	0.040	0.046	0.003	0.040	0.030	0.006	0.0044	
1-9 Tc Ts	188375	52 876	65 789 67 103	40	0.80	0.144	0.79	0.024	0.003	0.001	0.004	0.005	0.286	0.030	0.034	0.003	0.030	0.020	0.005	0.0059	
2-3 Tc Ts	189460	54 282	63 941 66 972	42	0.84	0.122	0.76	0.012	0.007	0.002	0.004	0.004	0.301	0.020	0.034	0.002	0.020	0.020	0.008	0.0050	
6-5 Tc Ts	189462	58 128	69 678 76 360	40	0.83	0.120	0.76	0.009	0.005	0.002	0.002	0.004	0.309	0.020	0.040	0.002	0.020	0.020	0.008	0.0045	
46-19 Tc Ts	289718	65 880	70 522 76 380	39	0.93	0.075	1.18	0.011	0.005	0.016	0.005	0.011	0.280	0.020	0.029	0.002	0.030	0.020	0.012	0.0071	
32-19 Tc Ts	289723	64 693	71 145 77 647	38	0.90	0.078	1.17	0.012	0.006	0.016	0.004	0.011	0.257	0.030	0.045	0.002	0.020	0.020	0.013	0.0062	
6-5 Tc Ts	289725	63 811	70 519 76 406	35	0.90	0.070	1.18	0.013	0.005	0.013	0.005	0.010	0.235	0.020	0.031	0.002	0.020	0.020	0.013	0.0070	
59-3 Tc Ts	289726	63 010	68 196 72 857	40	0.92	0.070	1.16	0.016	0.006	0.016	0.005	0.010	0.250	0.030	0.030	0.002	0.030	0.020	0.013	0.0080	
64-4 Tc Ts	289727	61 761	67 601 73 317	40	0.91	0.068	1.16	0.013	0.005	0.015	0.005	0.009	0.254	0.020	0.026	0.002	0.020	0.020	0.013	0.0071	
3-3 Tc Ts	290364	50 808	64 054 66 049	37	0.79	0.127	0.78	0.014	0.005	0.002	0.003	0.004	0.295	0.020	0.041	0.004	0.020	0.020	0.007	0.0036	
11-9 Tc Ts	290365	49 696	64 160 66 525	38	0.77	0.116	0.79	0.014	0.006	0.001	0.002	0.004	0.284	0.010	0.047	0.003	0.030	0.020	0.006	0.0044	
7-17 Tc Ts	290368	50 989	65 637 67 499	36	0.77	0.121	0.78	0.013	0.008	0.002	0.003	0.004	0.289	0.020	0.039	0.003	0.020	0.020	0.007	0.0058	
23-8 Tc Ts	490114	50 621	66 028 67 251	36	0.76	0.123	0.77	0.012	0.007	0.001	0.003	0.003	0.274	0.010	0.039	0.004	0.020	0.020	0.006	0.0052	
26-14 Tc Ts	490115	50 621	65 294 68 387	36	0.77	0.127	0.79	0.011	0.007	0.001	0.002	0.002	0.273	0.010	0.036	0.003	0.030	0.020	0.007	0.0064	
6-15 Tc Ts	490116	49 492	63 685 66 645	35	0.77	0.112	0.78	0.014	0.007	0.001	0.003	0.002	0.281	0.010	0.050	0.004	0.020	0.020	0.007	0.0070	

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 A53 -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