

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  
NUMBER

PTM-71384-2008

PEDIDO CLIENTE / P.O.

PEDIDO INTERNO / I.O. 1585

FECHA  
DATE

MAYO 29, 2008

PARTIDA (S)

ITEMS 88284-30 / 89938-40

DIAMETRO : 8.58"

ESPOSOR DE PARED  
WALL THICKNESS

0.500"

GRADO :

ASTM A53-B

PRESION HIDROSTATICA:

2430 PSI

HIDROSTATIC TEST:

171 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"	LEUT Y.S.T.S	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
2A-13 Tc Ts	272151	51 114	64 680 65 419	38	0.79	0.132	0.78	0.019	0.006	0.002	0.002	0.002	0.295	0.030	0.044	0.0031	0.040	0.030	0.002	0.0059	
9B-7 Tc Ts	272152	58 563	66 791 74 264	40	0.88	0.139	0.82	0.014	0.004	0.001	0.001	0.002	0.330	0.020	0.039	0.0021	0.020	0.020	0.002	0.0058	
7B-5 Tc Ts	272153	53 763	61 774 72 622	40	0.87	0.132	0.80	0.014	0.006	0.002	0.003	0.003	0.298	0.020	0.044	0.0043	0.020	0.020	0.002	0.0067	
6A-10 Tc Ts	272154	50 643	64 201 65 200	39	0.79	0.130	0.78	0.016	0.008	0.001	0.002	0.002	0.299	0.060	0.050	0.0330	0.020	0.020	0.004	0.0055	
7B-4 Tc Ts	274937	69 015	79 724 84 450	35	0.87	0.175	1.04	0.019	0.004	0.015	0.004	0.005	0.312	0.010	0.031	0.0019	0.020	0.030	0.004	0.0016	
1B-4Tc Ts	270628	58 687	69 700 71 228	40	0.84	0.136	0.77	0.014	0.007	0.001	0.002	0.005	0.294	0.030	0.030	0.0020	0.020	0.020	0.006	0.0051	
2B-12 Tc Ts	276957	62 669	69 128 71 682	36	0.91	0.160	0.78	0.013	0.006	0.001	0.001	0.003	0.290	0.021	0.035	0.0031	0.026	0.021	0.003	0.0070	
4B-11 Tc Ts	276958	63 149	72 990 73 935	37	0.87	0.130	0.78	0.015	0.006	0.001	0.002	0.003	0.300	0.025	0.033	0.0023	0.021	0.022	0.004	0.0072	
3B-6 Tc Ts	276959	59 180	67 200 74 958	38	0.88	0.130	0.81	0.013	0.006	0.001	0.003	0.003	0.310	0.028	0.028	0.0025	0.024	0.023	0.008	0.0062	
9B-12 Tc Ts	277071	64 615	72 502 73 811	38	0.89	0.120	0.74	0.017	0.004	0.001	0.001	0.003	0.270	0.012	0.031	0.0026	0.019	0.015	0.002	0.0068	
11B-11 Tc Ts	277078	67 756	73 187 78 180	35	0.93	0.120	0.74	0.016	0.003	0.001	0.001	0.003	0.270	0.012	0.029	0.0031	0.020	0.016	0.002	0.0063	

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

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

ASTM A53-B -06

ING. FERNANDO OSORIO PEREZ

GERENTE DE ASEGURAMIENTO DE CALIDAD  
QUALITY ASSURANCE MANAGER