

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  
NUMBER PTM-71302-2008

CUSTOMER:

PEDIDO CLIENTE / P.O.

PEDIDO INTERNO / I.O. 1318

FECHA  
DATE MAYO 26, 2008PARTIDA (S)  
ITEMS 93322-10 / 93440-20DIAMETRO: 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> 1430 PSIPRUEBAS DE TENSION  
TENSILE TESTANALISIS QUIMICO % EN PESO  
CHEMICAL ANALYSES PERCENT WEIGHT

NUM. PROBETA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (#SL)	ULTIMA TENSION TENSILE STRENGTH (#SL)	% ELONG. 2"	LEUIT Y/ST	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	
38-7 Tc Ts	181047	51 589	65 096 68 157	40	0.79	0.134	0.80	0.020	0.004	0.001	0.004	0.005	0.297	0.020	0.045	0.002	0.020	0.020	0.006	0.0058	
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	0.050	0.0021	0.002	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	
21-18 Tc Ts	280725	51 763	63 898 73 217	40	0.81	0.118	0.78	0.019	0.007	0.001	0.003	0.005	0.323	0.010	0.027	0.002	0.020	0.020	0.004	0.0056	
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 AQUÍ 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. HIRSHANDO OSORNO PEREZ  
GERENTE DE ASEGURAMIENTO DE CALIDAD  
QUALITY ASSURANCE MANAGER