



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. 2215
 PARTIDA (S)
 ITEMS 102742-10

NUMERO PTM-74227-2009
 NUMBER

FECHA
 DATE MARZO 12, 2009

DIAMETRO : 10 3/4" ESPESOR DE PARED : 0.365" GRADO : PRESION HIDROSTATICA: 170 Kg/cm² 2420 PSI
 DIAMETER : 10 3/4" WALL THICKNESS GRADE : ASTM A53-B / API 5L X-42 PSL1 HIDROSTATIC TEST:

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
17-10 Tc Ts	290361	49 901	63 147 64 141	35	0.79	0.125	0.78	0.012	0.004	0.001	0.002	0.004	0.303	0.010	0.038	0.002	0.020	0.030	0.008	0.0052	
1-16 Tc Ts	290362	50 377	65 324 67 537	34	0.77	0.124	0.81	0.013	0.004	0.001	0.002	0.004	0.300	0.020	0.037	0.002	0.020	0.030	0.009	0.0044	
15-5 Tc Ts	290363	48 561	65 232 67 405	35	0.74	0.126	0.79	0.013	0.005	0.002	0.002	0.004	0.281	0.010	0.040	0.003	0.030	0.020	0.007	0.0039	
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:

API SPECIFICATION 5L
 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:

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