



FLM4005-7
PROCARSA, S.A. DE C.V.

CERTIFICADO DE CALIDAD
DE PRUEBAS FISICAS-QUIMICAS

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

PLESA ANAHUAC S.A. DE C.V.

NUMERO FTM-59722-2004
NUMBER

CLIENTE:
PEDIDO CLIENTE / P.O. 12612
PEDIDO INTERNO / I.O. 12612
PARTIDA (S) 56621-29 / 59923-40 / 51242-10 / 66679-20
ITEMS

FECHA 2
DATE SEPTEMBER 30, 2004


TRO : 10 3/4" ESPESOR DE PARED 0.365" GRADO :
WALL THICKNESS GRADE :
PRUEBAS DE TENSION TENSILE TEST ASTM A53-B
ANALISIS QUIMICO % EN PESO 101 Kg/cm²
CHEMICAL ANALYSIS PERCENT WEIGHT 1430 PSI

ROSETA MARKING	COLUMNA HEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. % ELONG.	LEAIT Y.S.T.S	C	Mn	P	S	CB	V	TI	SI	CU	Al	Ca	Cr	NI	Mo	N	Ceq
32-5 TC	143248	66 272	71 217	36	0.93	0.164	1.05	0.015	0.005	0.013	0.003	0.003	0.294	0.038	0.035	0.0025	0.017	0.026	0.006	0.0056	
1-19 TC	145704	63 694	75 184	34	0.86	0.180	1.12	0.014	0.004	0.001	0.004	0.003	0.200	0.020	0.036	0.0028	0.020	0.030	0.006	0.0030	
5-13 TC	145705	59 440	82 507	40	0.75	0.167	1.14	0.014	0.004	0.002	0.002	0.003	0.200	0.030	0.039	0.0033	0.020	0.030	0.006	0.0040	
12-7 TC	145730	66 600	80 365	35	0.83	0.180	1.09	0.013	0.005	0.010	0.003	0.003	0.200	0.030	0.034	0.0021	0.020	0.030	0.007	0.0060	
2-16 TC	145731	63 836	77 330	34	0.81	0.170	1.05	0.012	0.004	0.010	0.003	0.004	0.240	0.030	0.033	0.0017	0.020	0.030	0.006	0.0050	
1-15 TC	145811	65 794	85 416	33	0.85	0.171	1.06	0.017	0.007	0.010	0.003	0.003	0.260	0.030	0.037	0.0024	0.020	0.030	0.007	0.0060	
3-13 TC	145812	67 593	82 886	32	0.87	0.175	1.09	0.012	0.007	0.010	0.003	0.002	0.270	0.020	0.027	0.0022	0.030	0.030	0.006	0.0060	
29-7 TC	145815	64 629	77 778	33	0.85	0.152	1.07	0.017	0.006	0.010	0.003	0.002	0.170	0.020	0.029	0.0025	0.010	0.030	0.005	0.0050	
9-14 TC	145816	67 625	84 282	34	0.84	0.173	1.06	0.016	0.005	0.010	0.002	0.003	0.180	0.020	0.030	0.0025	0.020	0.030	0.006	0.0100	
6-20 TC	237376	65 359	81 567	32	0.8	0.156	1.07	0.011	0.008	0.010	0.002	0.003	0.178	0.019	0.038	0.0030	0.023	0.026	0.004	0.0057	
7-10 TC	245558	54 947	83 100	38	0.73	0.165	1.12	0.010	0.006	0.001	0.007	0.003	0.170	0.030	0.042	0.0024	0.020	0.040	0.007	0.0070	

¡CAMOS QUE LA TUBERIA AQUI DESCRITA CUMPLE Y HA SIDO
ADA, MUESTREADA, PROBADA E INSPECCIONADA DE ACUERDO
S 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 -02


MFG. FERNANDO OSORIO PEREZ
GERENTE DE ASEGURAMIENTO DE CALIDAD
QUALITY ASSURANCE MANAGER