

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: PLESA ANAHUAC Y CIAS. S.A. DE C.V.

PEDIDO CLIENTE / P.O. 13854

PARTIDA (S) B0588-20 / 63180-20

ITEMS B0588-20 / 63180-20

NUMERO PTM-62249-2005

NUMBER PTM-62249-2005

FECHA

DATE JULIO 27, 2005

DIAMETRO: 12.3/4" ESPESOR DE PARED 0.250" GRADO: ASTM A53-B PRESION HIDROSTATICA: 820 PSI

WALL THICKNESS 0.250" GRADE: ASTM A53-B 58 Kg/cm² HIDROSTATIC TEST: 820 PSI

NUMPROBETA DESCRIPTION	COLADA HEAT	TENSILE TEST		LEULT Y.S.T.S	CHEMICAL ANALYSES PERCENT WEIGHT															
		LIMITE ELASTICO YIELD STRENGTH (#SLL)	ULTIMA TENSION TENSILE STRENGTH (#SLL)		% ELONG. 2"	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N
1-13 Tc Ts	147787	54 197	68 559 71 618	35	0.79	1.06	0.018	0.010	0.005	0.003	0.004	0.250	0.010	0.045	0.0020	0.020	0.020	0.020	0.005	0.0050
10-4 Tc Ts	150408	49 383	69 959 77 975	39	0.71	1.13	0.015	0.008	0.004	0.005	0.003	0.170	0.030	0.039	0.0042	0.030	0.030	0.013	0.0040	
24-26 Tc Ts	150411	58 644	75 586 78 769	36	0.78	1.11	0.019	0.006	0.001	0.002	0.003	0.160	0.020	0.032	0.0020	0.020	0.030	0.005	0.0040	
9-12 Tc Ts	247530	55 838	70 355 77 904	37	0.79	1.09	0.016	0.005	0.001	0.004	0.003	0.200	0.020	0.040	0.0027	0.030	0.030	0.008	0.0050	
2-7 Tc Ts	247531	56 126	72 162 79 519	35	0.78	1.11	0.011	0.004	0.001	0.003	0.004	0.230	0.020	0.039	0.0023	0.020	0.030	0.007	0.0050	
3-6 Tc Ts	250435	52 511	67 712 73 953	38	0.78	1.09	0.013	0.007	0.004	0.005	0.004	0.180	0.030	0.039	0.0032	0.030	0.040	0.014	0.0030	
15-15 Tc Ts	250436	56 506	69 186 75 821	35	0.82	1.08	0.013	0.006	0.001	0.004	0.003	0.170	0.010	0.036	0.0028	0.020	0.030	0.005	0.0050	

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-B -02

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