

PROCARSA, S.A. DE C.V.

**CERTIFICADO DE CALIDAD  
DE PRUEBAS FISICAS-QUIMICAS**

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE: PLESA ANAHUAC Y CIA, S.A. DE C.V.

NUMERO PTM-62218-2005

CUSTOMER:  
PEDIDO CLIENTE/PO.  
PARTIDA (S)

13856

FECHA  
DATE JULIO 25, 2005

ITEMS 63638-20

PRESSION HIDROSTATICA:

58 Kg/cm<sup>2</sup> 820 PSI

DIAMETRO : 16" ESPESOR DE PARED 0.312"  
DIAMETER : 16" WALL THICKNESS 0.312"

GRADO : ASTM A53-B

**TENSILE TEST**

**CHEMICAL ANALYSIS PERCENT WEIGHT**

NUM/PROBETA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. 2"	LENT Y/FT S	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
11-18 TC TS	150491	55 247	70 670 78 424	35	0.78	0.168	1.06	0.013	0.008	0.004	0.004	0.003	0.190	0.030	0.033	0.0035	0.020	0.030	0.009	0.0040	
9-15 TC TS	150492	50 763	69 941 77 582	35	0.73	0.160	1.09	0.015	0.008	0.004	0.004	0.003	0.150	0.030	0.033	0.0018	0.030	0.030	0.008	0.0040	
4-9 TC TS	250535	51 506	70 964 77 074	36	0.73	0.168	1.11	0.022	0.005	0.002	0.002	0.005	0.180	0.040	0.036	0.00223	0.030	0.040	0.009	0.0040	
13-16 TC TS	250536	55 603	72 515 82 820	37	0.77	0.173	1.09	0.017	0.006	0.002	0.005	0.004	0.180	0.040	0.029	0.0024	0.030	0.040	0.007	0.0060	
18-14 TC TS	250639	53 535	73 320 74 873	35	0.73	0.162	1.09	0.013	0.006	0.001	0.002	0.003	0.190	0.020	0.044	0.0025	0.020	0.030	0.007	0.0040	
10-17 TC TS	250640	54 802	71 578 78 147	35	0.77	0.165	1.09	0.015	0.008	0.003	0.004	0.004	0.160	0.030	0.033	0.0022	0.020	0.030	0.007	0.0040	

CERTIFICAMOS QUE LA TUBERIA AQUI DESCRITA CUMPLE Y HA SIDO FABRICADA, MUESTREADA, PROBADA E INSPECCIONADA DE ACUERDO CON LOS 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

ING. FERNANDO OSORIO PEREZ  
GERENTE DE ASEGURAMIENTO DE CALIDAD

