



ELM-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 CIA S.A. DE C.V.

CUSTOMER:

PEDIDO CLIENTE / P.O.

PARTIDA (S)

ITEMS

NUMERO PTM-72206-2008

NUMBER

FECHA

DATE

AGOSTO 16, 2008

DIAMETRO: 12 3/4"

ESPESOR DE PARED
WALL THICKNESS

0.330"

GRADO:

ASTM A53-B

PRESSION HIDROSTATICA:
HYDROSTATIC TEST:

77 Kg/cm²

1090 PSI

**PRUEBAS DE TENSION
TENSILE TEST**

**CHEMICAL ANALYSIS PERCENT WEIGHT
ANALISIS QUIMICO % EN PESO**

NUM. PROBEA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. % ELONG.	LEBUT ELONG. IN 5 INCHES	C	Mn	P	S	CB	V	TI	SI	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
1-19 TC TS	181216	49 707	65 729	35	0.75	0.125	0.76	0.016	0.008	0.001	0.002	0.004	0.280	0.020	0.031	0.002	0.020	0.020	0.005	0.0071	
19-8 TC TS	261201	62 634	68 980	37	0.84	0.090	1.12	0.016	0.006	0.026	0.003	-	0.288	0.020	0.043	0.0021	0.020	0.030	0.007	0.0064	
72-9 TC TS	261892	63 496	83 314	36	0.90	0.074	1.18	0.012	0.003	0.022	0.003	-	0.323	0.020	0.039	0.0024	0.020	0.030	0.005	0.0044	
5-20 TC TS	280938	48 290	80 302	35	0.75	0.126	0.76	0.015	0.005	0.001	0.002	0.005	0.305	0.010	0.037	0.002	0.020	0.020	0.006	0.0050	
4-18 TC TS	281000	50 682	69 782	33	0.77	0.134	0.76	0.021	0.007	0.001	0.004	0.005	0.300	0.010	0.038	0.002	0.020	0.020	0.006	0.0050	

CERTIFICAMOS QUE LA TUBERIA AQUI DESCRITA CUMPLE Y HA SIDO FABRICADA, MUESTREADA, PROBADA E INSPECCIONADA DE ACUERDO CON LOS REQUISITOS APLICABLES 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. FERNANDO OSORIO PEREZ
 GERENTE DE ASEGURAMIENTO DE CALIDAD
 QUALITY ASSURANCE MANAGER