



FLM-005-7

PROCARSA, S.A. DE C.V.

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

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

DIAMETRO : 14"      ESPESOR DE PARED : 0.375"      GRADO :      ASTM A53-B      PRESSION HIDROSTATICA: 79 Kg/cm<sup>2</sup>      1120 PSI

DIAMETER : 14"      WALL THICKNESS : 0.375"      GRADE :      ASTM A53-B      HIDROSTATIC TEST:      ANALISIS QUIMICO % EN PESO      CHEMICAL ANALYSES PERCENT WEIGHT

CLIENTE: PLESA ANAHUAC Y CIAS. S.A. DE C.V.      NUMERO PTM  
 CUSTOMER:      NUMBER  
 PEDIDO CLIENTE / P.O. 1306      FECHA  
 PEDIDO INTERNO / I.O.      DATE  
 PARTIDA (S)      MARZO 07  
 ITEMS 93258-10

NOM. PROBLETA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. 2"	LEBUT Y.S.T.S	CHEMICAL ANALYSES PERCENT WEIGHT													
						C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo
21-8 Tc Ts	180180	69 260	77 940 78 839	35	0.88	0.080	1.13	0.016	0.002	0.023	0.004	0.009	0.311	0.040	0.036	0.0031	0.030	0.030	0.008
14-10 Tc Ts	180181	64 498	74 336 80 711	37	0.86	0.090	1.15	0.018	0.005	0.023	0.005	0.008	0.270	0.010	0.034	0.0026	0.020	0.020	0.005
17-11 Tc Ts	180182	70 469	75 347 75 861	33	0.93	0.085	1.11	0.012	0.003	0.020	0.003	0.007	0.290	0.020	0.035	0.0018	0.020	0.020	0.006
11-5 Tc Ts	180184	68 201	75 076 78 846	33	0.90	0.079	1.12	0.015	0.006	0.021	0.003	0.009	0.285	0.020	0.040	0.0017	0.020	0.020	0.006
29-9 Tc Ts	180185	70 751	76 588 81 449	33	0.92	0.072	1.15	0.016	0.003	0.027	0.004	0.009	0.301	0.020	0.034	0.0022	0.020	0.020	0.006
32-18 Tc Ts	280178	69 025	74 656 75 196	36	0.92	0.084	1.12	0.014	0.004	0.023	0.003	0.009	0.297	0.030	0.034	0.0017	0.020	0.020	0.007

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 -06

*[Signature]*  
 GERENTE DE ASEGURAMIENTO DE CALIDAD  
 QUALITY ASSURANCE MANAGER