

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:

NUMERO PTM-75623-1-2009

NUMBER

PEDIDO CLIENTE / P.O.

PEDIDO INTERNO / I.O. 2503

PARTIDA (S)

ITEMS 100596-110

FECHA

DATE SEPTIEMBRE 02, 2009

DIAMETRO : DIAMETER : 16"	ESPEJOR DE PARED WALL THICKNESS 0.375"	GRADO : GRADE : ASTM A53-B	PRESION HIDROSTATICA: HYDROSTATIC TEST: 69 Kg/cm <sup>2</sup> 980 PSI
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**PRUEBAS DE TENSION  
TENSILE TEST**
**ANALISIS QUIMICO % EN PESO  
CHEMICAL ANALYSES PERCENT WEIGHT**

NUMPROBETA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. 2"	LEVAT Y.S/T.S	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
88-9 Tc Ts	187290	62 854	69 442 72 185	39	0.90	0.061	1.17	0.016	0.004	0.018	0.003	0.007	0.223	0.020	0.034	0.0031	0.020	0.020	0.005	0.0064	
21-8 Tc Ts	286986	61 878	70 371 70 665	44	0.87	0.076	1.18	0.012	0.005	0.022	0.003	0.009	0.234	0.020	0.036	0.0024	0.020	0.040	0.006	0.0078	
80-8 Tc Ts	286987	61 879	70 142 75 870	40	0.88	0.074	1.18	0.015	0.006	0.021	0.005	0.010	0.225	0.040	0.038	0.0024	0.020	0.030	0.007	0.0065	
76-4 Tc Ts	286988	61 985	70 865 76 924	38	0.87	0.068	1.17	0.013	0.004	0.021	0.003	0.007	0.238	0.040	0.027	0.0024	0.020	0.030	0.006	0.0067	
67-2 Tc Ts	286989	61 210	68 294 72 315	42	0.89	0.076	1.16	0.011	0.004	0.018	0.002	0.008	0.232	0.030	0.039	0.0029	0.030	0.020	0.006	0.0063	
49-8 Tc Ts	286990	62 987	70 135 74 324	37	0.89	0.062	1.16	0.013	0.007	0.019	0.005	0.009	0.226	0.030	0.031	0.0025	0.020	0.020	0.013	0.0076	
63-5 Tc Ts	286991	64 414	71 473 76 824	40	0.90	0.066	1.19	0.018	0.004	0.022	0.005	0.006	0.216	0.040	0.025	0.0030	0.020	0.030	0.007	0.0061	
8-4 Tc Ts	286992	61 733	68 280 74 078	37	0.90	0.068	1.16	0.013	0.006	0.018	0.004	0.008	0.235	0.020	0.036	0.0032	0.020	0.020	0.007	0.0062	
43-9 Tc Ts	286993	62 552	75 171 76 158	37	0.83	0.062	1.19	0.018	0.004	0.022	0.005	0.007	0.231	0.050	0.034	0.0026	0.020	0.030	0.008	0.0044	
44-10 Tc Ts	286994	63 265	70 138 77 754	38	0.90	0.070	1.18	0.012	0.003	0.020	0.005	0.006	0.230	0.040	0.035	0.0023	0.010	0.020	0.006	0.0060	
11-5 Tc Ts	286995	62 604	73 367 74 760	38	0.86	0.069	1.16	0.012	0.003	0.018	0.002	0.006	0.231	0.020	0.028	0.0030	0.010	0.020	0.005	0.0066	

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 -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