

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:

PEDIDO CLIENTE /P.O.

PEDIDO INTERNO / I.O. 3178

PARTIDA (S)

ITEMS USA-02-05 / CHI-02-08

NUMERO PTM-78256-2010

NUMBER

FECHA

DATE OCTUBRE 27, 2010

DIAMETRO : DIAMETER : 24"	ESPESOR DE PARED WALL THICKNESS 0.375"	GRADO : GRADE : ASTM A53-B	PRESION HIDROSTATICA: HIDROSTATIC TEST: 46 Kg/cm <sup>2</sup> 660 PSI
------------------------------	---	-------------------------------	--

**PRUEBAS DE TENSION  
TENSILE TEST**
**ANALISIS QUIMICO % EN PESO  
CHEMICAL ANALYSES PERCENT WEIGHT**

NUM.PROBETA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. 2"	LE/UT Y.S/T.S	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
10-11 Tc Ts	B5Q6016	62 903	70 671 77 338	37	0.89	0.070	1.08	0.009	0.003	0.023	0.001	0.002	0.203	0.132	0.028	0.002	0.040	0.050	0.012	0.0080	
93-2 Tc Ts	B1804957	59 386	76 082 77 089	40	0.78	0.057	1.07	0.012	0.002	0.002	0.009	0.016	0.192	0.010	0.037	--	0.036	0.017	0.004	--	
65-9 Tc Ts	B1804961	59 764	74 373 78 237	41	0.80	0.066	1.04	0.007	0.002	0.002	0.007	0.017	0.231	0.100	0.028	--	0.033	0.019	0.007	--	
91-10 Tc Ts	B1804964	59 237	70 976 70 746	42	0.83	0.063	1.02	0.008	0.004	0.002	0.007	0.015	0.198	0.012	0.031	--	0.030	0.018	0.003	--	
48-3 Tc Ts	B1804977	67 724	76 813 77 183	35	0.88	0.072	1.00	0.011	0.004	0.002	0.009	0.011	0.245	0.011	0.036	--	0.033	0.017	0.002	--	
43-4 Tc Ts	B2805045	56 561	73 935 72 306	35	0.76	0.067	0.94	0.008	0.003	0.002	0.006	0.012	0.220	0.013	0.027	--	0.043	0.017	0.001	--	
41-6 Tc Ts	B2805049	62 233	74 406 75 197	37	0.83	0.068	0.92	0.013	0.003	0.002	0.007	0.013	0.220	0.018	0.034	--	0.038	0.022	0.004	--	
85-6 Tc Ts	B2805093	59 534	73 606 77 405	38	0.80	0.074	0.93	0.008	0.002	0.002	0.009	0.011	0.220	0.021	0.040	--	0.042	0.016	0.005	--	
61-9 Tc Ts	B2805094	69 398	80 160 78 018	35	0.86	0.059	0.95	0.009	0.002	0.002	0.008	0.012	0.206	0.011	0.030	--	0.033	0.015	0.004	--	

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. ALEJANDRO ALARCON CAZARES  
SUPERVISOR DE LABORATORIO METALURGICO  
METALLURGICAL LABORATORY SUPERVISOR