



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. 2374

PARTIDA (S)

ITEMS 102476-20

NUMERO PTM-75031-2009

NUMBER

FECHA

DATE MAYO 23, 2009

DIAMETRO : DIAMETER : 10 3/4"	ESPESOR DE PARED WALL THICKNESS 0.365"	GRADO : GRADE : ASTM A53-B	PRESION HIDROSTATICA: HIDROSTATIC TEST: 101 Kg/cm ² 1430 PSI
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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
47-19 Tc Ts	289717	63 581	71 277 78 261	40	0.89	0.074	1.14	0.016	0.006	0.015	0.005	0.009	0.251	0.020	0.033	0.002	0.020	0.020	0.012	0.0080	
46-19 Tc Ts	289718	65 880	70 522 76 380	39	0.93	0.075	1.18	0.011	0.005	0.016	0.005	0.011	0.280	0.020	0.029	0.002	0.030	0.020	0.012	0.0071	
81-18 Tc Ts	289719	61 921	68 367 74 906	38	0.90	0.079	1.20	0.014	0.005	0.014	0.004	0.011	0.269	0.020	0.027	0.002	0.030	0.020	0.013	0.0077	
57-19 Tc Ts	289720	63 470	69 104 74 738	38	0.91	0.072	1.18	0.013	0.006	0.016	0.005	0.011	0.260	0.010	0.045	0.002	0.020	0.020	0.012	0.0068	
60-19 Tc Ts	289721	65 068	70 521 74 836	38	0.92	0.082	1.18	0.012	0.005	0.014	0.005	0.013	0.260	0.010	0.040	0.001	0.020	0.020	0.012	0.0071	
80-19 Tc Ts	289722	60 891	69 203 75 701	35	0.87	0.084	1.20	0.011	0.006	0.015	0.005	0.012	0.266	0.020	0.030	0.001	0.020	0.020	0.013	0.0079	
32-19 Tc Ts	289723	64 693	71 145 77 647	38	0.90	0.078	1.17	0.012	0.006	0.016	0.004	0.011	0.257	0.030	0.045	0.002	0.020	0.020	0.013	0.0062	
6-5 Tc Ts	289725	63 811	70 519 76 406	35	0.90	0.070	1.18	0.013	0.005	0.013	0.005	0.010	0.235	0.020	0.031	0.002	0.020	0.020	0.013	0.0070	
64-4 Tc Ts	289727	61 761	67 601 73 317	40	0.91	0.068	1.16	0.013	0.005	0.015	0.005	0.009	0.254	0.020	0.026	0.002	0.020	0.020	0.013	0.0071	

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