

FLM-085-7



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-75660-2009

NUMBER

PEDIDO CLIENTE / P.O.

PEDIDO INTERNO / I.O. 2575

FECHA

DATE SEPTIEMBRE 14, 2009

PARTIDA (S)

ITEMS 103138-10 / 71071-10

DIAMETRO : ESPESOR DE PARED GRADO : PRESION HIDROSTATICA:  
DIAMETER : 14" WALL THICKNESS 0.312" GRADE : ASTM A53-B HIDROSTATIC TEST: 66 Kg/cm<sup>2</sup> 946 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. I"	LEULT Y.S/T.S	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
20-1 Tc Ts	190811	60 201	69 447 72 458	40	0.86	0.064	1.18	0.011	0.003	0.018	0.003	0.009	0.240	0.010	0.038	0.0012	0.030	0.020	0.018	0.0056	
21-11 Tc Ts	190812	62 320	68 857 73 677	40	0.90	0.068	1.19	0.011	0.004	0.017	0.003	0.009	0.249	0.010	0.037	0.0012	0.010	0.020	0.008	0.0050	
6-11 Tc Ts	262804	69 175	82 564 84 999	33	0.84	0.102	1.11	0.014	0.007	0.049	0.003	0.007	0.171	0.040	0.035	0.0025	0.020	0.030	0.007	0.0038	
40-20 Tc Ts	262805	66 110	77 712 84 187	34	0.85	0.087	1.12	0.018	0.006	0.042	0.005	0.010	0.185	0.030	0.040	0.0033	0.030	0.030	0.006	0.0057	
17-10 Tc Ts	288356	59 871	70 600 73 722	36	0.84	0.063	1.18	0.011	0.004	0.021	0.003	0.012	0.251	0.020	0.032	0.0020	0.020	0.020	0.007	0.0077	
4-10 Tc Ts	288360	61 688	68 182 74 463	42	0.90	0.072	1.17	0.014	0.005	0.017	0.003	0.009	0.231	0.040	0.026	0.0036	0.030	0.030	0.008	0.0052	
9-13 Tc Ts	288361	63 272	70 012 74 146	40	0.90	0.068	1.18	0.015	0.004	0.019	0.002	0.009	0.245	0.030	0.033	0.0043	0.020	0.030	0.007	0.0080	

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