

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 PFM-74018-1-2009

NUMBER

PEDIDO CLIENTE / P.O.

PEDIDO INTERNO / I.O. 2110

PARTIDA (\$) ITEMS

100011-90

FECHA

DATE FEBRERO 13, 2009

DIAMETRO :
DIAMETER: 12 3/4"ESPESOR DE PARED
WALL THICKNESS 0.375"GRADO :
GRADE : ASTM A53-BPRESION HIDROSTATICA:
HYDROSTATIC TEST: 57 Kg/cm² 1240 PSI
**PRUEBAS DE TENSION
TENSILE TEST**
**ANALISIS QUIMICO % EN PESO
CHEMICAL ANALYSIS PERCENT WEIGHT**

NUM. PROBETA DESCRIPTION	COLADA HEAT	PRUEBAS DE TENSION		% ELONG. 1"	LE/ULT Y.S.T.S	ANALISIS QUIMICO % EN PESO														
		LIBRETE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)			C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N
20-6 Tc Ts	286307	74 042	80 488 83 651	32	0.91	0.071	1.19	0.013	0.004	0.043	0.002	0.008	0.186	0.020	0.037	0.0025	0.020	0.020	0.006	0.0067
44-15 Tc Ts	286309	74 454	81 068 86 194	30	0.91	0.088	1.12	0.015	0.005	0.046	0.003	0.008	0.177	0.020	0.020	0.004	0.020	0.020	0.008	0.0070
99-18 Tc Ts	286310	72 774	78 117 83 786	30	0.93	0.077	1.11	0.016	0.004	0.043	0.004	0.007	0.175	0.020	0.040	0.003	0.010	0.020	0.007	0.0076
67-5 Tc Ts	286311	66 824	79 008 81 633	32	0.84	0.080	1.13	0.016	0.004	0.043	0.002	0.009	0.179	0.030	0.036	0.002	0.020	0.020	0.008	0.0070
25-5 Tc Ts	286312	71 095	79 584 85 285	33	0.89	0.084	1.11	0.017	0.005	0.043	0.004	0.007	0.167	0.020	0.030	0.002	0.020	0.020	0.007	0.0061
26-7 Tc Ts	286313	73 142	80 813 84 415	33	0.90	0.083	1.11	0.015	0.008	0.044	0.005	0.010	0.181	0.020	0.036	0.002	0.030	0.020	0.009	0.0076
51-5 Tc Ts	286318	68 257	82 055 86 843	30	0.83	0.098	1.18	0.014	0.006	0.047	0.002	0.010	0.183	0.020	0.041	0.002	0.020	0.020	0.006	0.0055
101-5 Tc Ts	286319	71 914	79 503 85 754	32	0.90	0.094	1.17	0.015	0.003	0.045	0.004	0.010	0.190	0.020	0.026	0.002	0.010	0.010	0.007	0.0082
102-17 Tc Ts	286320	75 948	81 347 83 626	34	0.93	0.090	1.14	0.020	0.006	0.045	0.005	0.009	0.209	0.020	0.035	0.002	0.020	0.020	0.006	0.0065
118-7 Tc Ts	286880	72 141	82 549 84 452	32	0.87	0.102	1.13	0.015	0.004	0.044	0.002	0.008	0.188	0.040	0.032	0.004	0.030	0.020	0.006	0.0061

CERTIFICAMOS QUE LA TUBERIA AQUI DESCRITA CUMPLE Y HA SIDO FABRICADA, MUESTREADA, PROBADA E INSPECCIONADA DE ACUERDO CON LOS REQUISITOS APLICABLES DE LA ESPECIFICACION:

ASTM A53-B -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