



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 S.A. DE C.V.

NUMERO: PTM-59704-2004

CUSTOMER:

NUMBER

pedido cliente / P.O.

12608

FECHA

SEPTIEMBRE 29, 2004

pedido interno / I.O.

12608

DATE

SEPTIEMBRE 29, 2004

PARTIDA (S)

51245-30

DATE

SEPTIEMBRE 29, 2004

DIAMETRO: 6.5/8"

ESPESOR DE PARED WALL THICKNESS

0.280"

GRADO: APL 5L X-52

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PRESION HIDROSTATICA: 211 Kg/cm²

HIDROSTATIC TEST: 3000 PSI

ANALISIS QUIMICO % EN PESO

CHEMICAL ANALYSES PERCENT WEIGHT

TENSILE TEST

NUM. PROBETA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. 2"	LEALT Y. 2" / 5" T.S.	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ce
22A-15 Lc	137236	60 575	76 016	35	0.80	0.180	1.11	0.012	0.006	0.002	0.004	0.005	0.202	0.014	0.041	0.0017	0.026	0.040	0.009	0.0067	
19A-15 Lc	137237	55 788	71 218	35	0.78	0.170	1.11	0.017	0.008	0.002	0.004	0.004	0.160	0.012	0.033	0.0019	0.021	0.025	0.007	0.0068	
24A-16 Lc	137238	59 137	71 892	36	0.82	0.180	1.09	0.017	0.009	0.003	0.005	0.005	0.187	0.016	0.044	0.0018	0.023	0.027	0.008	0.0066	
31A-15 Lc	137240	57 949	71 668	34	0.81	0.177	1.05	0.012	0.008	0.002	0.003	0.003	0.169	0.014	0.034	0.0027	0.018	0.024	0.006	0.0061	
54B-12 Lc	137242	61 013	74 597	35	0.82	0.180	1.12	0.019	0.006	0.003	0.005	0.004	0.198	0.016	0.033	0.0029	0.014	0.024	0.006	0.0049	
66A-12 Lc	137243	56 153	69 790	35	0.80	0.171	1.09	0.013	0.008	0.002	0.005	0.004	0.195	0.011	0.037	0.0033	0.017	0.024	0.006	0.0082	

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

WE CERTIFY THE PIPE ABOVE MENTIONED ACCOMPLISH AND HAS BEEN MANUFACTURED, SAMPLED, TESTED AND INSPECTED IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF SPECIFICATIONS:

API SPECIFICATION 5L

FORTY-SECOND EDITION, JANUARY, 2000

EFFECTIVE DATE JULY 1, 2000

MGR. FERNANDO ROSENDO PÉREZ
GERENTE DE ASEGURAMIENTO DE CALIDAD
QUALITY ASSURANCE MANAGER