



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-40127-2004
CUSTOMER:		FECHA:	NOVIEMBRE 23, 2004
PEDIDO CLIENTE / P.O.	12831	DATE	
PEDIDO INTERNO / I.O.			
PARTIDA (S)	59923-90		
ITEMS			

DIAMETRO: 16" ESPESOR DE PARED: 0.375" GRADO: API 5L X-42 PRESSION HIDROSTATICA: 117 Kg/cm² 1670 PSI

DIAMETER: 16" WALL THICKNESS: 0.375" GRADE: API 5L X-42 ANALISIS QUIMICO % EN PESO

NO. PROBE DESCRIPCION	COLADA HEAT	PRUEBAS DE TENSION TENSILE TEST			CHEMICAL ANALYSES PERCENT WEIGHT															
		LIMITE ELASTICO YIELD STRENGTH (PSI)	ULTIMA TENSION TENSILE STRENGTH (PSI)	% ELONG 1"	C	Min	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
13-15 TC TS	144973	64 108	74 182 83 088 70 277	36	0.164	1.09	0.015	0.007	0.003	0.005	0.003	0.160	0.030	0.044	-	0.030	0.030	0.008	0.0080	
6-4 TC TS	144986	57 422	79 767 73 649	39	0.180	1.11	0.019	0.007	0.002	0.035	0.003	0.180	0.020	0.045	-	0.030	0.030	0.008	0.0080	
11-5 TC TS	144987	52 475	75 978 70 309	35	0.162	1.10	0.015	0.008	0.002	0.035	0.003	0.200	0.020	0.045	-	0.020	0.030	0.009	0.0070	
7-2 TC TS	144994	55 801	77 438	38	0.167	1.12	0.015	0.007	0.003	0.005	0.003	0.150	0.030	0.030	-	0.030	0.030	0.007	0.0080	

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

ING. FERNANDO OSORIO PEREZ
GERENTE DE ASEGURAMIENTO DE CALIDAD
QUALITY ASSURANCE MANAGER

[Handwritten Signature]
12831