



FLM-005-7

PROCARSA, S.A. DE C.V.

**CERTIFICADO DE CALIDAD
DE PRUEBAS FISICAS-QUIMICAS**

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE:	PLASA ANAHUAC S.A. DE C.V.	FECHA	NOVIEMBRE 23, 2004
CLIENTER:		DATE	
PELIDO CLIENTE / P.O.	12831	NUMBER	PTN-60121-1-2004
PELIDO INTERNO / I.O.			
PARTIDA(S)	59923-70		

DIAMETRO: 12 3/4" ESPESOR DE PARED: 0.406" GRADO: API 5L X-42 PESION HIDROSTATICA: 160 Kg/cm² 2270 PSI

DIAMETER: 12 3/4" WALL THICKNESS: 0.406" GRADE: API 5L X-42 ANALISIS QUIMICO % EN PESO

NUMPROBETA DESCRIPCION	COLADA HEAT	PRUEBAS DE TENSION TENSILE TEST		CHEMICAL ANALYSIS PERCENT WEIGHT																		
		LIMITE ELASTICO YIELD STRENGTH (F _{0.2})	ULTIMA TENSION TENSILE STRENGTH (F _U)	% ELONG. 1"	LENI Y/ST S	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ce	
10-1 TC TS	245626	53 058	68 805 74 460	35	0.77	0.152	1.11	0.017	0.007	0.001	0.002	0.002	0.170	0.020	0.039	0.0033	0.020	0.020	0.030	0.005	0.0050	
2-15 TC TS	245627	51 257	69 368 75 939	34	0.74	0.170	1.11	0.014	0.008	0.001	0.002	0.002	0.160	0.030	0.035	0.0029	0.020	0.030	0.006	0.0050		

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