



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.	CLIENTE:	
CLIENTER:		FECHA	NOVIEMBRE 23, 2004
PELIDO CLIENTE /P.O.	12831	DATE	
PELIDO INTERNO /I.O.			
PARTIDA(S)	59923-70		
ITEMS			

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 GRADE: API 5L X-42 ANALISIS QUIMICO % EN PESO 2270 PSI

PRUEBAS DE TENSION		CHEMICAL ANALYSIS PERCENT WEIGHT																		
TENSILE TEST																				
NUMPROBETA	COLADA	LIMITE ELASTICO	ULTIMA TENSION	% ELONG.	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ce
DESCRIPTION	HEAT	YIELD STRENGTH (PSI)	TENSILE STRENGTH (PSI)	1"																
10-1 TC	245626	53 058	68 805	35	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	0.005	0.0050	
TS			74 460	0.77	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	
2-15 TC	245627	51 257	69 368	34																
TS			75 939	0.74																

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