



FLM-005-7
PROCARSA, S.A. DE C.V.

**CERTIFICADO DE CALIDAD
 DE PRUEBAS FÍSICAS-QUÍMICAS**

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE: (CUSTOMER:	TIPO OTA	NUMERO NUMBER	PTM-49376-1-2001
PELIDO CLIENTE / P.O.	7724	FECHA DATE	OCTUBRE 22, 2001
PELIDO INTERNO / I.O.	26326-10 / 26495-50		
PARTIDA(S) ITEMS	26326-10 / 26495-50		

TAMAÑO: 8.58" ESPESOR DE PARED: 0.322" GRADO: API 5L X-42 PRESSION HIDROSTATICA: 165 Kg/cm² 2350 PSI
 SIZE: 8.58" WALL THICKNESS: 0.322" GRADE: API 5L X-42 HYDROSTATIC TEST: ANALISIS QUIMICO: % EN PESO

NUM. PROBEA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. 2"	LENG. INCHES	CHEMICAL ANALYSIS PERCENT WEIGHT														
						C	Mn	P	S	CB	V	TI	SI	Cu	Al	Ca	Cr	Ni	Mo	N
168-10 Tc TS	115448	53 434	71 385 74 663	38	0.75	0.164	1.08	0.017	0.005	0.003	0.004	0.002	0.223	0.017	0.038	0.0028	0.012	0.020	0.007	0.0072
31B-2 Tc TS	115449	54 141	71 378 73 536	39	0.76	0.150	1.13	0.014	0.006	0.004	0.003	0.003	0.242	0.023	0.037	0.0024	0.017	0.034	0.014	0.0072
7B-1 Tc TS	115477	57 375	71 822 72 601	35	0.80	0.180	1.14	0.017	0.007	0.002	0.004	0.004	0.217	0.018	0.029	0.0022	0.021	0.033	0.009	0.0067
5B-10 Tc TS	115481	54 363	71 497 74 918	35	0.76	0.174	1.13	0.014	0.004	0.001	0.002	0.003	0.235	0.016	0.038	0.0029	0.012	0.020	0.002	0.0064
35B-10 Tc TS	115488	55 571	70 533 73 854	36	0.79	0.173	1.15	0.019	0.006	0.003	0.003	0.004	0.214	0.027	0.045	0.0025	0.025	0.045	0.011	0.0066
32A-4 Tc TS	115489	54 685	70 886 73 702	36	0.77	0.177	1.11	0.013	0.005	0.001	0.001	0.003	0.203	0.021	0.041	0.0029	0.013	0.021	0.003	0.0054

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 EFECTIVE DATE: JULY 1, 2000

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