



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

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

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE:	TUCOTA	NUMERO	FLM-51117-1-2002
CUSTOMER:		NUMBER	
PELIDO CLIENTE / P.O.	8075	FECHA	FEBRERO 09, 2002
PELIDO INTERNO / I.O.		DATE	
PARTIDA (S)	31062-10		
ITEMS			

DIAMETRO : 16" ESPESOR DE PARED 0.312" GRADO : API 5L X-60 PRESION HIDROSTATICA: 140 Kg/cm² 1990 PSI

PRUEBAS DE TENSION

TENSILE TEST

CHEMICAL ANALYSIS PERCENT WEIGHT

NUM PROBETA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. 2"	LEAD % SUTS	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
8-18 TC TS	118658	69 699	79 516 81 106	34	0.88	0.099	1.13	0.019	0.006	0.040	0.005	0.009	0.188	0.026	0.026	0.0025	0.031	0.030	0.017	0.0068	
20-4 TC TS	218315	67 897	80 666 83 531	35	0.84	0.078	1.11	0.018	0.006	0.039	0.004	0.009	0.213	0.022	0.034	0.0024	0.023	0.021	0.017	0.0044	

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

