



FLM-005-7

PROCARSA, S.A. DE C.V.

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

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

DIAMETRO: 10 3/4"
WALL THICKNESS

ESPESOR DE PARED 0.250"

GRADO: API 5L X-42
GRADE:

PRESSION HIDROSTATICA: 117 Kg/cm²
ANALISIS QUIMICO % EN PESO

CLIENTE: TUUCOTA
CUSTOMER: TUUCOTA

PEDIDO CLIENTE / P.O. 10429
PEDIDO INTERNO / I.O. 10429

FECHA ABRIL 10, 2003
DATE

NUMERO PTM-54603-2003
NUMBER

TENSILE TEST

CHEMICAL ANALYSES PERCENT WEIGHT

NUM/PROBETA DESCRIPCION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (Q ₂₁₁)	ULTIMA TENSION TENSILE STRENGTH (Q ₄₁₁)	% ELONG. %	LONG. INCHES	C	Min	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
6-1 TC TS	118675	63 632	74 768	35	0.85	0.172	1.13	0.014	0.007	0.003	0.005	0.003	0.223	0.031	0.042	0.0031	0.023	0.036	0.016	0.0074	
25-6 TC TS	121222	52 420	83 947	35	0.72	0.180	1.12	0.017	0.007	0.001	0.002	0.004	0.245	0.015	0.045	0.0034	0.013	0.024	0.006	0.0048	
17-16 TC TS	221210	50 886	79 538	38	0.74	0.170	1.08	0.019	0.008	0.001	0.004	0.004	0.180	0.016	0.041	0.0024	0.017	0.023	0.004	0.0052	
14-18 TC TS	221211	52 157	74 574	38	0.77	0.161	1.08	0.012	0.005	0.001	0.002	0.004	0.220	0.013	0.038	0.0030	0.010	0.023	0.004	0.0059	
			74 225																		

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: JUL Y 1, 2000

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