



F.I.M-005-7

PROCARSA S.A. DE C.V.

CERTIFICADO DE CALIDAD
DE PRUEBAS FISICAS-QUIMICAS

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE: TUCOYA
CUSTOMER:
PEDIDO CLIENTE / P.O. 9015
PEDIDO INTERNO / I.O.
PARTIDA (S) 32652-30 / 32539-40
ITEMS

NUMERO PTM-52332-2002
FECHA JUNIO 07, 2002
DATE

DIAMETRO: 10 3/4"
WALL THICKNESS: 0.307"
ESPESOR DE PARED: 0.307"
GRADO: API 5L X-42
PRENSION HIDROSTATICA: 143 Kg/cm² 2040 PSI
HIDROSTATIC TEST: ANALISIS QUIMICO % EN PESO

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"	LE/UT V.S/T.S	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
6-6 Tc TS	109073	57 217	70 421 77 417	41	0.81	0.122	0.92	0.015	0.007	0.003	0.046	--	0.075	0.200	0.034	0.0042	0.021	0.035	0.014	0.0058	
7-18 Tc TS	121058	54 791	80 145 73 465	36	0.68	0.161	1.12	0.013	0.004	0.001	0.003	--	0.210	0.013	0.037	0.0024	0.018	0.033	0.004	0.0048	
2-21 Tc TS	121059	58 862	70 206 77 369	37	0.84	0.160	1.10	0.016	0.006	0.001	0.003	--	0.233	0.014	0.045	0.0029	0.021	0.025	0.003	0.0060	
25-7 Tc TS	121222	55 018	71 101 78 644	40	0.77	0.180	1.12	0.017	0.007	0.001	0.002	--	0.245	0.015	0.045	0.0034	0.013	0.024	0.006	0.0048	
2-2 Tc TS	210033	56 979	71 601 78 952	37	0.80	0.099	1.18	0.024	0.004	0.015	0.006	--	0.227	0.011	0.032	0.0018	0.028	0.023	0.009	0.0072	
16-10 Tc TS	221055	54 048	70 362 78 261	35	0.69	0.180	1.11	0.016	0.006	0.001	0.003	--	0.199	0.026	0.037	0.0038	0.032	0.032	0.007	0.0039	

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 FEREZ
GERENTE DE ASEGURAMIENTO DE CALIDAD
QUALITY ASSURANCE MANAGER

[Handwritten Signature]
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