



FLM-005-7

PROCARSA, S.A. DE C.V.

CERTIFICADO DE CALIDAD  
DE PRUEBAS FISICAS-QUIMICAS

CLIENTE: TUCOTIA  
CUSTOMER:  
PEDIDO CLIENTE / P.O. 9157  
PARTIDA (S)  
ITEMS

NUMERO PTM-52518-2002  
NUMBER  
FECHA JULIO 15, 2002  
DATE

DIAMETRO: 18" ESPESOR DE PARED: 0.239" GRADO: ASTM A53-B

PRUEBAS DE TENSION

ANALISIS QUIMICO % EN PESO

41 Kg/cm<sup>2</sup>

580 PSI

WALL THICKNESS

HYDROSTATIC TEST:

CHEMICAL ANALYSES PERCENT WEIGHT

NUM/PROBETA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (PSI)	ULTIMA TENSION TENSILE STRENGTH (PSI)	% ELONG. IN	REDUC. AREA	C	Mn	P	S	Cb	V	TI	SI	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
9-13 Tc Ts	111159	45 283	65 109	38	0.70	0.135	0.92	0.015	0.006	-	-	-	0.194	0.012	0.050	0.0036	0.018	0.029	-	0.0057	-
12-7 Tc Ts	203900	51 020	68 692	38	0.73	0.145	0.91	0.015	0.008	-	-	-	0.167	0.013	0.050	0.0026	0.018	0.034	-	0.0063	-
30-1 Tc Ts	203902	46 301	72 593	37	0.69	0.126	0.89	0.016	0.007	-	-	-	0.150	0.015	0.046	0.0028	0.019	0.029	-	0.0059	-
7-7 Tc Ts	203903	48 861	69 161	39	0.71	0.135	0.93	0.015	0.006	-	-	-	0.179	0.023	0.046	0.0028	0.017	0.026	-	0.0063	-
3-12 Tc Ts	210819	45 739	70 503	39	0.72	0.143	0.90	0.013	0.006	-	-	-	0.167	0.012	0.040	0.0017	0.018	0.028	-	0.0063	-
2-8 Tc Ts	210820	46 452	63 177	39	0.69	0.135	0.90	0.012	0.006	-	-	-	0.187	0.014	0.042	0.0022	0.017	0.030	-	0.0065	-
43-18 Tc Ts	284652	48 342	67 124	40	0.72	0.152	0.750	0.022	0.007	-	-	-	0.227	0.028	0.042	0.0014	0.023	0.030	-	0.0080	-
12-98 Tc Ts	286108	53 237	66 574	30	0.74	0.160	0.91	0.017	0.011	-	-	-	0.143	0.016	0.037	0.0026	0.032	0.032	-	0.0050	-

CERTIFICAMOS QUE LA TUBERIA AQUI DESCRITA CUMPLE Y HA SIDO FABRICADA, MUESTREADA, PROBADA E INSPECCIONADA DE ACUERDO CON LOS REQUISITOS APPLICABLES 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:

ASTM

ING. FERNANDO OSORIO PENEZ  
QUALITY ASSURANCE MANAGER

GET SITE DE ASEGURAMIENTO DE CALIDAD