

FLM-005-7

**PROCARSA, S.A. DE C.V.**  
**CERTIFICADO DE CALIDAD**  
**DE PRUEBAS FISICAS-QUIMICAS**

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE: TUCOTA

CUSTOMER:

PEDIDO CLIENTE / P.O. 8066

PARTIDA (S) 29180-20 / 58565-50 / 29887-10

NÚMERO PTM-50292-2001

NUMBER

FECHA DICIEMBRE 12, 2001

DATE

DIAMETRO: 16" ESPESOR DE PARED 0.375" GRADO: ASTM A53-B PRESION HIDROSTATICA: 69 Kg/cm<sup>2</sup> 980 PSI

PRUEBAS DE TENSION


ANÁLISIS QUÍMICO % EN PESO

NÚMERO DE DESCRIPCIÓN	COLADA HEAT	LÍMITE ELÁSTICO YIELD STRENGTH (PSI)	ÚLTIMA TENSION TENSILE STRENGTH (PSI)	% ELONG. %	LEAD YGTS	CHEMICAL ANALYSES PERCENT WEIGHT														
						C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N
66-10 TC	117405	59 667	70 516	37	0.85	0.098	1.11	0.015	0.007	0.017	0.003	-	0.127	0.017	0.040	0.0027	0.016	0.029	0.007	0.0060
84-9 TC	117407	57 301	73 364	38	0.81	0.106	1.20	0.015	0.006	0.017	0.004	-	0.137	0.019	0.033	0.0027	0.019	0.031	0.008	0.0070
114-7 TC	117409	62 230	77 346	38	0.87	0.105	1.14	0.016	0.006	0.017	0.004	-	0.137	0.014	0.039	0.0028	0.019	0.021	0.007	0.0066
72-9 TC	117663	67 920	79 692	34	0.85	0.142	1.13	0.012	0.007	0.034	0.005	-	0.214	0.016	0.040	0.0035	0.022	0.024	0.016	0.0052
136-11 TC	117844	62 305	86 175	36	0.87	0.082	1.20	0.018	0.009	0.020	0.003	-	0.114	0.015	0.023	0.0034	0.024	0.028	0.017	0.0042
16-6 TC	216954	62 561	71 628	37	0.87	0.099	1.14	0.014	0.007	0.021	0.003	-	0.134	0.011	0.036	0.0025	0.008	0.021	0.003	0.0072
14-9 TC	216955	66 874	78 324	36	0.86	0.098	1.09	0.017	0.007	0.021	0.002	-	0.143	0.018	0.040	0.0020	0.017	0.032	0.005	0.0065
59-12 TC	216956	63 123	79 073	36	0.87	0.104	1.13	0.015	0.007	0.021	0.005	-	0.147	0.016	0.043	0.0021	0.013	0.026	0.005	0.0080
38-10 TC	216958	63 896	72 271	36	0.87	0.098	1.13	0.016	0.006	0.022	0.003	-	0.159	0.012	0.040	0.0018	0.013	0.021	0.004	0.0070
126-7 TC	217099	64 741	73 389	38	0.88	0.098	1.14	0.013	0.009	0.020	0.003	-	0.156	0.014	0.033	0.0026	0.019	0.024	0.013	0.0071
168-9 TC	217110	62 809	82 179	38	0.82	0.095	1.17	0.014	0.007	0.023	0.004	-	0.181	0.016	0.032	0.0046	0.020	0.033	0.015	0.0080

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:

ASTM

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