



FLA1-005-7

PROCARSA, S.A. DE C.V.

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

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE:	TI COITA	NUMERO	PTM-5443/54-2003
CUSTOMER:	S.A. DE C.V.	NUMBER	
PEDIDO CLIENTE / P.O.		FECHA	MARZO 27, 2003
PEDIDO INTERNO / I.O.	10041	DATE	
PARTIDA(S)			
ITEMS	40667-30		

DIAMETRO: 12 3/4" ESPESOR DE PARED: 0.250" GRADO: ASTM A53-B PRESION HIDROSTATICA: 58 Kg/cm² 820 PSI

PRUEBAS DE TENSION

ANALISIS QUIMICO % EN PESO

NUMEROS DE IDENTIFICACION	COLADA	LIMITE ELASTICO (FALL)	ULTIMA TENSION (FALL)	% ELONG. T ₂	LIMIT YIELD	CHEMICAL ANALYSES PERCENT WEIGHT														
						C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mn	N
22-9 Tc	127031	55 989	68 528	37	0.82	0.180	1.15	0.020	0.008	0.002	0.005	0.003	0.188	0.014	0.037	0.0028	0.020	0.037	0.012	0.0047
Ts			73 923																	
20-5 Tc	127036	56 144	69 058	36	0.81	0.180	1.11	0.018	0.007	0.002	0.005	0.003	0.150	0.017	0.037	0.0037	0.020	0.020	0.015	0.0046
Ts			72 139																	
17-6 Tc	127037	51 720	71 010	36	0.73	0.173	1.10	0.014	0.006	0.003	0.005	0.004	0.181	0.016	0.037	0.0026	0.021	0.022	0.013	0.0080
Ts			73 981																	
3-19 Tc	127036	56 263	70 610	34	0.80	0.157	1.15	0.014	0.007	0.001	0.002	0.003	0.243	0.012	0.045	0.0027	0.013	0.024	0.003	0.0054
Ts			75 419																	
5-14 Tc	127039	52 829	68 399	34	0.77	0.180	1.14	0.017	0.006	0.003	0.004	0.004	0.230	0.043	0.034	0.0027	0.028	0.039	0.018	0.0047
Ts			73 486																	
14-3 Tc	227455	49 489	67 277	37	0.74	0.159	1.07	0.013	0.007	0.003	0.004	0.004	0.203	0.027	0.045	0.0023	0.022	0.022	0.012	0.0063
Ts			69 218																	

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 A53-B -99

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