

PROCARSA, S.A. DE C.V.

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

QUALITY CERTIFICATE OF TEST PHYSICAL-CHEMICAL

CLIENTE: TUCUJA
 CUSTOMER: TUCUJA
 PEDIDO CLIENTE / P.O. 9157
 PEDIDO INTERNO / I.O. 9157
 PARTIDA (S) 32945-30 / 32537-20
 ITEMS

NUMERO PTM-52555-56-2002
 FECHA JULIO 19, 2002
 DATE

METRO: 12 3/4" ESPESOR DE PARED 0.250" GRADO: ASTM A53-B
 WALL THICKNESS TENSILE TEST


ANALISIS QUIMICO % EN PESO
 CHEMICAL ANALYSIS PERCENT WEIGHT

UNIPROPIETA DESCRIPCION	COLADA HEAT	LIMITE ELASTICO (F.S.L)	ULTIMA TENSION (F.S.L)	% ELONG. 1"	LEAD IN LB/FTS	C	Mn	P	S	Cb	V	TI	SI	Cu	Al	Ca	NI	Mo	N	Ceq
3-11 Tc	120145	50 772	66 806	41	0.76	0.142	0.83	0.017	0.005	-	-	-	0.153	0.018	0.042	0.0032	0.023	0.028	-	-
25-8 Tc	121106	49 852	71 699	40	0.76	0.152	0.84	0.017	0.006	-	-	-	0.116	0.011	0.027	0.0015	0.021	0.023	-	-
21-15 Tc	121107	53 425	67 825	41	0.85	0.132	0.81	0.013	0.007	-	-	-	0.141	0.010	0.040	0.0005	0.016	0.032	-	-
30-12 Tc	121108	53 561	69 689	37	0.81	0.144	0.79	0.021	0.010	-	-	-	0.133	0.015	0.034	0.0005	0.022	0.032	-	-
35-14 Tc	121223	51 422	72 106	40	0.79	0.140	0.83	0.018	0.005	-	-	-	0.150	0.013	0.036	0.0002	0.014	0.024	-	-
10-1 Tc	221050	48 954	72 124	36	0.72	0.170	1.11	0.014	0.008	-	-	-	0.213	0.015	0.045	0.0024	0.031	0.036	-	-
13-5 Tc	221051	48 073	72 111	37	0.65	0.161	1.14	0.017	0.008	-	-	-	0.196	0.015	0.038	0.0036	0.035	0.031	-	-
6-1 Tc	221052	49 488	75 148	35	0.72	0.164	1.10	0.016	0.008	-	-	-	0.220	0.017	0.043	0.0035	0.033	0.028	-	-
19-6 Tc	221072	53 689	69 745	35	0.84	0.137	0.81	0.017	0.010	-	-	-	0.159	0.021	0.043	0.0003	0.025	0.029	-	-
12-14 Tc	221073	52 861	70 392	40	0.80	0.145	0.81	0.019	0.008	-	-	-	0.142	0.013	0.030	0.0004	0.026	0.028	-	-
			73 435																	

ARTIFICAMOS QUE LA TUBERIA AQUI DESCRITA CUMPLE Y HA SIDO FABRICADA, MUESTREADA, PROBADA E INSPECCIONADA DE ACUERDO A 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


 M.C. FERNANDO OSORIO PEREZ
 GERENTE DE ASEGURAMIENTO DE CALIDAD
 QUBTR-ASSURANCE MANAGER