



PROCARSA, S.A. DE C.V.

CERTIFICADO DE CALIDAD
DE PRUEBAS FISICAS-QUIMICAS

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE:	TUCOTA	NUMERO	PI-M-51922-2002
CUSTOMER:		NUMBER	
PEDIDO CLIENTE / P.O.	8571	FECHA	MAYO 02, 2002
PEDIDO INTERNO / I.O.		DATE	
PARTIDAS (S)			
ITEMS			

DIAMETRO	24"	ESPESOR DE PARED	0.250"	GRADO:	ASTM A53-B	PRESION HIDROSTATICA:	31 Kg/cm ²	440 PSI
DIAMETER:	24"	WALL THICKNESS	0.250"	GRADE:	ASTM A53-B	HIDROSTATIC TEST:		

NUM. PROYECTA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. %	LEAD INCHES	CHEMICAL ANALYSIS PERCENT WEIGHT													
						C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo
104-6 Tc Ts	164227	60 836	70 768 76 241	34	0.86	0.070	0.71	0.016	0.009	--	--	0.240	0.060	0.043	--	0.0200	0.020	--	--
133-2 Tc Ts	164229	55 184	68 948 79 892	37	0.79	0.080	0.67	0.015	0.013	--	--	0.239	0.130	0.042	--	0.0300	0.030	--	--
116-11 Tc Ts	164231	57 337	78 997 75 480	40	0.73	0.060	0.73	0.011	0.010	--	--	0.227	0.080	0.044	--	0.0100	0.020	--	--
64-5 Tc Ts	164235	54 814	72 842 74 099	39	0.75	0.070	0.68	0.012	0.010	--	--	0.219	0.110	0.039	--	0.0200	0.020	--	--
111-6 Tc Ts	164252	53 266	71 968 77 756	37	0.74	0.060	0.74	0.015	0.010	--	--	0.232	0.080	0.045	--	0.0300	0.030	--	--
48-3 Tc Ts	269146	53 883	67 237 73 712	42	0.80	0.060	0.69	0.013	0.007	--	--	0.225	0.050	0.031	--	0.0100	0.020	--	--
101-13 Tc Ts	269151	60 633	70 233 75 111	36	0.86	0.070	0.67	0.009	0.007	--	--	0.258	0.060	0.032	--	0.0100	0.020	--	--
43-2 Tc Ts	KC1981	64 052	70 588 74 208	42	0.91	0.160	0.62	0.013	0.005	--	--	0.200	0.010	0.037	--	0.020	0.010	--	--

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 PEREZ
GERENTE DE ASSEGURAMIENTO DE CALIDAD
QUALITY ASSURANCE MANAGER