

PLM-005-7

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

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE:	TUCOTA	NUMERO	PTM-54603-1-2003
CUSTOMER:		NUMBER	
PEDIDO CLIENTE / P.O.	10429	FECHA	ABRIL 10, 2003
PEDIDO INTERNO / I.O.		DATE	
PARTIDA (S)			
ITEMS	34592-30 / 43755-40 / 3874-40		

DIAMETRO: 16" ESPESOR DE PARED 0.500" GRADO: ASTM A53-B PRESION HIDROSTATICA: 92 Kg/cm² 1310 PSI
 DIAMETER: 16" WALL THICKNESS 0.500" GRADE: ASTM A53-B HYDROSTATIC TEST: 92 Kg/cm² 1310 PSI

TENSILE TEST

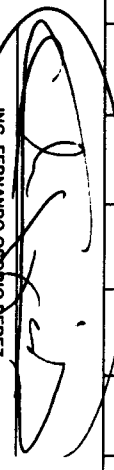
CHEMICAL ANALYSES PERCENT WEIGHT

MANUFACTURA DESCRIPCION	COLUMNA HEAT	LIMITE ELASTICO YIELD STRENGTH (P.0.1)	ULTIMA TENSION TENSILE STRENGTH (P.0.1)	% ELONG. 2"	LEWIT Y.G.T.S	C	Min	P	S	Cb	V	Ti	SI	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
2-6 Tc Ts	122271	56 945	68 470 75 442	41	0.83	0.164	1.11	0.015	0.007	0.003	0.003	0.004	0.219	0.013	0.041	0.0027	0.015	0.024	0.009	0.0039	
2-3 Tc Ts	131400	53 926	71 452 78 780	40	0.75	0.170	1.10	0.013	0.007	0.001	0.002	0.002	0.190	0.029	0.035	0.0034	0.011	0.028	0.003	0.0058	
7-5 Tc Ts	222099	53 669	68 470 75 442	41	0.83	0.164	1.11	0.014	0.007	0.003	0.003	0.003	0.204	0.012	0.037	0.0028	0.017	0.026	0.009	0.0032	
13-11 Tc Ts	222104	52 259	69 587 76 920	42	0.75	0.158	1.10	0.013	0.007	0.003	0.003	0.004	0.226	0.026	0.045	0.0029	0.021	0.037	0.013	0.0047	
5-7B Tc Ts	225650	59 704	71 243 77 555	35	0.84	0.163	1.11	0.017	0.007	0.003	0.004	0.004	0.181	0.012	0.045	0.0011	0.016	0.022	0.015	0.0046	
4-5 Tc Ts	225651	60 692	71 347 77 336	37	0.85	0.180	1.12	0.024	0.008	0.004	0.004	0.003	0.199	0.036	0.045	0.0018	0.065	0.051	0.026	0.0053	

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 BEREZ
 GERENTE DE ASEGURAMIENTO DE CALIDAD
 QUALITY ASSURANCE MANAGER