



PLM-005-7

PROCARSA, S.A. DE C.V.

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

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE:	TUCOTA	NUMERO	PTM-47904 2-2001
CUSTOMER:		NUMBER	
pedido cliente / OJ.	6906	FECHA	JULIO 04, 2001
pedido interno / I.O.		DATE	
partida (s)			
ITEMS	225110 / 21341-30		

TAMANO: 10 3/4" ESPESOR DE PARED: 0.250" GRADO: ASTM A53-B

WALL THICKNESS: 0.250" GRADE: ASTM A53-B

PRUEBAS DE TENSION TENSILE TEST

NUM. PROBEA DESCRIPCION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (σ _{0.2})	ULTIMA TENSION TENSILE STRENGTH (σ _U)	% ELONG. 2"	LEAIT YELTS	C	Mn	P	S	Cb	V	Ti	SI	Cu	Al	Ca	Cr	NI	Mo	N	Ceq
1-12 Tc Ts	207943	47 435	67 764 73 694	37	0.70	0.147	0.91	0.018	0.007	-	-	-	0.202	0.018	0.050	0.0037	0.022	0.032	-	0.0044	
18-15 Tc Ts	211490	50 427	68 963 72 476	40	0.73	0.151	0.94	0.017	0.005	-	-	-	0.184	0.014	0.031	0.0023	0.024	0.027	-	0.0067	
12-28 Tc Ts	212166	54 573	70 945 73 083	41	0.77	0.147	0.93	0.015	0.004	-	-	-	0.161	0.039	0.048	0.0027	0.020	0.034	-	0.0054	
7-13 Tc Ts	212167	51 315	66 440 71 839	36	0.77	0.145	0.98	0.015	0.006	-	-	-	0.129	0.034	0.050	0.0027	0.020	0.038	-	0.0077	

CERTIFICAMOS QUE LA TUBERIA AQUI DESCRITA CUMPLE Y HA SIDO FABRICADA, MUESTREADA, PROBADA E INSPECCIONADA DE ACUERDO CON LOS REQUISITOS APLICABLES DE LA ESPECIFICACION:

ASTM

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

WE CERTIFY THE PIPE ABOVE MENTIONED ACCOMPLISH AND HAS BEEN MANUFACTURED, SAMPLED, TESTED AND INSPECTED IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF SPECIFICATIONS: