



FLM-005-7
PROCARSA, S.A. DE C.V.

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

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE:	TUCOTA	NUMERO:	
CUSTOMER:		NUMBER:	
PEDIDO CLIENTE / P.O.	10801	FECHA	AGOSTO 04, 2003
PEDIDO INTERNO / I.O.		DATE	
PARTIDA (S)	45349-20		

DIAMETRO: 12 3/4" ESPESOR DE PARED: 0.375" GRADO: ASTM A53-B PRESION HIDROSTATICA: 87 Kg/cm² 1240 PSI
 WALL THICKNESS: 0.375" GRADE: ASTM A53-B

**PRUEBAS DE TENSION
 TENSILE TEST**

CHEMICAL ANALYSES PERCENT WEIGHT

NUM. PROYECTA DESCRIPTION	QUILADA HEAT	LIMITE ELASTICO YIELD STRENGTH (PSI)	ULTIMA TENSION TENSILE STRENGTH (PSI)	% ELONG. 2"	ELONG. 5/16"	C	Min	P	S	Ch	V	Ti	SI	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
7-11 Tc Ts	132426	56 332	71 238 77 310	35	0.79	0.150	1.14	0.014	0.008	0.002	0.005	0.003	0.195	0.023	0.037	0.0029	0.019	0.028	0.013	0.0055	
8-10 Tc Ts	132427	57 364	69 343 75 372	36	0.83	0.178	1.13	0.017	0.008	0.002	0.005	0.004	0.208	0.033	0.036	0.0025	0.020	0.025	0.012	0.0057	
3-12B Tc Ts	232372	55 485	70 618 78 368	37	0.79	0.168	1.11	0.013	0.008	0.002	0.004	0.004	0.220	0.036	0.045	0.0031	0.022	0.033	0.013	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 PEREZ
 GERENTE DE ASEGURAMIENTO DE CALIDAD
 QUALITY ASSURANCE MANAGER