



FLN-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-56678-79-2003
CUSTOMER:		NUMBER	
PEDIDO CLIENTE / P.O.	11153	FECHA	NOVIEMBRE 05, 2003
PEDIDO INTERNO / I.O.		DATE	
PARTIDA (S)	49827-10 / X8886-7		
ITEMS			

DIAMETRO : 10 3/4" ESPESOR DE PARED : 0.188" GRADO : ASTM A53-B PRESION HIDROSTATICA : 51 Kg/cm² 730 PSI

PRUEBAS DE TENSION

CHEMICAL ANALYSES PERCENT WEIGHT

NUM/PROBETA DESCRIPCION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. % ELONG.	LEAD LEAD Y/ST	C	Mn	P	S	Cb	V	TI	SI	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
2-21 TC TS	236059	49 950	70 300 80 152	33	0.71	0.165	1.10	0.018	0.006	0.001	0.005	-	0.322	0.015	0.038	0.0025	0.013	0.020	0.003	0.0056	
5-21 TC TS	236083	53 336	71 728 78 716	36	0.74	0.169	1.14	0.012	0.006	0.001	0.004	-	0.285	0.033	0.042	0.0033	0.014	0.022	0.004	0.0055	
4-21 TC TS	236084	52 300	68 531 74 425	37	0.76	0.176	1.12	0.015	0.006	0.001	0.003	-	0.261	0.050	0.042	0.0030	0.020	0.036	0.005	0.0049	
3-18 TC TS	297509	55 279	66 010 70 141	37	0.84	0.140	0.94	0.012	0.007	0.003	0.002	-	0.150	0.010	0.040	0.0030	0.019	0.029	0.013	0.0050	

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 -89

ING. FERNANDO OSORIO PEREZ
 GERENTE DE ASEGURAMIENTO DE CALIDAD

QUALITY ASSURANCE MANAGER