



FLM-005-7

PROCARSA, S.A. DE C.V.

CERTIFICADO DE CALIDAD  
DE PRUEBAS FISICAS-QUIMICAS

CLIENTE: TUCOTA  
CUSTOMER: TUCOTA  
PEDIDO CLIENTE / P.O. 6017  
PARTIDA (S) 20289-10

NUMERO PTM-45864.65-2001  
FECHA FEBRERO 27, 2001  
DATE

TAMANO 12 3/4" ESPESOR DE PARED 0.219" GRADO: ASTM A53-B PENSION HIDROSTATICA: 51 Kg/cm<sup>2</sup> 720 PSI  
WALL THICKNESS 0.219" GRADE: ASTM A53-B PENSION HIDROSTATICA: 51 Kg/cm<sup>2</sup> 720 PSI

PRUEBAS DE TENSION  
TENSILE TEST

CHEMICAL ANALYSIS PERCENT WEIGHT  
ANALISIS QUIMICO % EN PESO

NUM. PROBE DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. 2"	LEAD YIELD	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
5-26 TC TS	110284	57 823	68 027 72 131	35	0.85	0.142	0.95	0.018	0.004	-	-	-	0.186	0.016	0.026	0.0017	0.016	0.026	-	0.0059	-
14-2 TC TS	111016	55 234	68 079 70 236	36	0.81	0.144	0.90	0.017	0.006	-	-	-	0.186	0.029	0.037	0.0027	0.019	0.036	-	0.0049	-
4-16 TC TS	208784	54 275	68 302 70 536	37	0.82	0.149	0.90	0.021	0.005	-	-	-	0.182	0.013	0.032	0.0027	0.015	0.023	-	0.0052	-
13-1 TC TS	210693	59 613	70 594 71 963	37	0.84	0.150	0.91	0.019	0.005	-	-	-	0.187	0.016	0.038	0.0029	0.018	0.031	-	0.0032	-

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 ASEGURAMIENTO DE CALIDAD  
QUALITY ASSURANCE MANAGER