



PROCARSA, S.A. DE C.V.

CERTIFICADO DE CALIDAD
DE PRUEBAS FISICAS-QUIMICAS

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE: TUCOTA
 PEDIDO CLIENTE / P.O. _____
 PEDIDO INTERNO / I.O. 8075
 PARTIDA(S) 4681-30 / 16788-20 / X B883-9
 NUMERO NUMBER P.V. 50901-2002
 FECHA DATE ENERO 23, 2002

DIAMETRO: 16" ESPESOR DE PARED WALL THICKNESS 0.312" GRADO: ASTM A53-B PRESION HIDROSTATICA: 58 kg/cm² 820 PSI

PRUEBAS DE TENSION TENSILE TEST

CHEMICAL ANALYSIS PERCENT WEIGHT

NUM. PROBEA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO (P.S.I.)	ULTIMA TENSION (P.S.I.)	% ELONG. T	LEAD T YRFS	C	Min	P	S	Cb	V	Ti	SI	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
8-2 Tc	100639	60 310	66 232	40	0.91	0.143	0.915	0.013	0.007	-	0.166	0.030	0.048	0.0023	0.042	0.029	-	-	0.0053		
3-1 Tc	107904	47 974	66 022	41	0.73	0.147	0.93	0.013	0.007	-	0.186	0.015	0.041	0.0031	0.019	0.026	-	-	0.0049		
11-14 Tc	207843	46 899	66 749	40	0.70	0.144	0.90	0.014	0.006	-	0.202	0.013	0.047	0.0019	0.021	0.031	-	-	0.0060		
3-10 Tc	297069	60 752	69 640	38	0.87	0.144	0.970	0.018	0.009	-	0.172	0.027	0.034	0.0022	0.020	0.029	-	-	0.0050		
			74 373																		

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