



PROCARSA, S.A. DE C.V.

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

QUALITY CERTIFICATE OF TEST PHYSICAL-CHEMICAL

CLIENTE / CUSTOMER:	TUCOTA	NUMERO / NUMBER:	PTM-48365-1-2001
PEDIDO CLIENTE / P.O. PARTIDA (S)	7372	FECHA / DATE:	AGOSTO 01, 2001
PEDIDO INTERNO / I.D. PARTIDA (S)	2496-5 / X8574-3		

TAMANO / SIZE:	20"	ESPESOR DE PARED / WALL THICKNESS:	0.375"	GRADO:	ASTM A53-B	PRESION HIDROSTATICA:	56 Kg/cm ²	790 PSI
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NUM. PROPIETA / DESCRIPTION	COLADA / HEAT	LIMITE ELASTICO / YIELD STRENGTH (σ _{SL})	ULTIMA TENSION / TENSILE STRENGTH (σ _{SL})	% ELONG. 2"	LEAVT / VOLT'S	CHEMICAL ANALYSIS PERCENT WEIGHT													
						C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo
33-5 TC Ts	197805	51 915	66 774 72 874	40	0.78	0.147	0.94	0.013	0.010	-	-	0.170	0.014	0.050	0.0022	0.016	0.028	-	0.0055
15-12 TC Ts	282334	64 428	68 872 78 237	35	0.92	0.120	0.81	0.015	0.009	-	-	0.009	0.015	0.041	0.0008	0.020	0.035	-	0.0061

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 RAMIRO PEREZ
GERENTE DE ASEGURAMIENTO DE CALIDAD
QUALITY ASSURANCE MANAGER