



PROCARSA, S.A. DE C.V.

CERTIFICADO DE CALIDAD  
DE PRUEBAS FÍSICAS-QUÍMICAS

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE: TUCOTA  
CUSTOMER:

NUMERO PTM-51004-2002  
NUMBER

PEDIDO CLIENTE / P.O. 8299  
PEDIDO INTERNO / I.O.

FECHA  
DATE

PARTIDA (S) 30347-10

ENERO 30, 2002

DIAMETRO: 16" ESPESOR DE PARED 0.250" GRADO: ASTM A53-B PRESSION HIDROSTATICA: 46 Kp/cm<sup>2</sup> 660 PSI  
WALL THICKNESS 0.250" GRADE: ASTM A53-B ANALISIS QUÍMICO % EN PESO

NUM.PROBETA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (σ <sub>SL</sub> )	ULTIMA TENSION TENSILE STRENGTH (σ <sub>SL</sub> )	% ELONG. 2"	LEOIT VGF'S	CHEMICAL ANALYSIS PERCENT WEIGHT														
						C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N
13-14 Tc Ts	118508	47 894	70 700 77 024	35	0.68	0.169	1.11	0.014	0.004	0.001	0.002	0.003	0.212	0.031	0.040	0.0037	0.017	0.027	0.005	0.0048
8-13 Tc Ts	118515	47 986	68 592 75 131	36	0.70	0.159	1.10	0.015	0.008	0.003	0.003	0.004	0.195	0.021	0.041	0.0027	0.022	0.025	0.015	0.0049

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 PINEZ  
GERENTE DE ASEGURAMIENTO DE CALIDAD  
QUALITY ASSURANCE MANAGER

