



PROCARSA, S.A. DE C.V.

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

QUALITY CERTIFICATE OF TEST PHYSICAL-CHEMICAL

DIAMETRO: 20" ESPESOR DE PARED 0.375" GRADO: 39905-20 56 Kg/cm² 790 PSI
 WALL THICKNESS GRADE: ASTM A53-B CHEMICAL ANALYSIS PERCENT WEIGHT

CLIENTE: TUCOTIA
 CUSTOMER: PEDIDO CLIENTE/P.O. 11154/11144
 PEDIDO INTERNO/ I.O. PARTIDA (S) 39905-20
 ITEMS
 PRESION HIDROSTATICA: 790 PSI
 HIDROSTATIC TEST:
 ANALISIS QUIMICO % EN PESO
 CHEMICAL ANALYSIS PERCENT WEIGHT

MINI PROBETA DESCRIPCION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (PSI)	ULTIMA TENSIÓN TENSILE STRENGTH (PSI)	% ALONG. EL.	LENGT INCHES	CHEMICAL ANALYSIS PERCENT WEIGHT														
						C	Mn	P	S	Cb	V	Ti	SI	Cu	Al	Ca	Cr	Ni	Mo	N
30-11 Tc	1265db	51 939	70 791	37	0.73	0.171	1.11	0.017	0.008	0.001	0.004	0.004	0.225	0.019	0.043	0.0010	0.014	0.026	0.004	0.0057
29-3 Tc	126590	48 723	70 274	36	0.69	0.180	1.11	0.020	0.005	0.001	0.003	0.003	0.224	0.023	0.043	0.0018	0.019	0.029	0.004	0.0040
10-11 Tc	227020	51 239	77 622	35	0.70	0.180	1.13	0.014	0.005	0.001	0.002	0.002	0.179	0.015	0.034	0.0037	0.009	0.023	0.004	0.0040
16-1 Tc	227021	45 917	80 619	35	0.68	0.177	1.12	0.012	0.008	0.003	0.004	0.003	0.161	0.034	0.039	0.0020	0.025	0.030	0.012	0.0036

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 -99

ING. FERNANDO OSORIO PÉREZ
 GERENTE DE ASSEURAMIENTO DE CALIDAD

NUMERO FTM-56838-140-2003

FECHA

NOVIEMBRE 22, 2003