



FLM-005-7

PROCARSA, S.A. DE C.V.
CERTIFICADO DE CALIDAD
DE PRUEBAS FISICAS-QUIMICAS

QUALITY CERTIFICATE OF TEST PHYSICAL-CHEMICAL

CLIENTE: TUCOTA
 CUSTOMER: S.A. DE C.V.
 PEDIDO CLIENTE/P.O. 10040
 PEDIDO INTERNO/I.O. 10040
 PARTIDAS)
 39905-10

NUMERO PTM-54369-2003
 NUMBER
 FECHA MARZO 18, 2003
 DATE

DIAMETRO: 20" ESPESOR DE PARED 0.250" GRADO: ASTM A53-B PRESION HIDROSTATICA: 37 Kg/cm² 520 PSI
 WALL THICKNESS TENSILE TEST CHEMICAL ANALYSIS PERCENT WEIGHT

NOMENCLATURA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (F _{0.2})	ULTIMA TENSION TENSILE STRENGTH (F _U)	% ELONG. E	LENG. VALTS	ANALISIS QUIMICO % EN PESO														
						C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N
2-18 TC TS	126586	52 617	71 957	36	0.73	0.178	1.12	0.013	0.007	0.003	0.004	0.004	0.209	0.018	0.034	0.0022	0.016	0.030	0.012	0.0037
12-15 TC TS	126589	50 669	71 217	34	0.71	0.171	1.11	0.017	0.008	0.001	0.004	0.004	0.228	0.020	0.045	0.0010	0.014	0.027	0.005	0.0051
13-11 TC TS	126585	48 825	70 029 75 284	36	0.70	0.180	1.13	0.015	0.006	0.001	0.004	0.003	0.200	0.016	0.032	0.0030	0.017	0.027	0.004	0.0050

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 ASEGURAMIENTO DE CALIDAD
 QUALITY ASSURANCE MANAGER