



PROCARSA, S.A. DE C.V.

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

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

METRO: 10 3/4"

ESPESSOR DE PAREDE
WALL THICKNESS

0.250"

GRADO:
GRADE:

ASTM A53-B

PRESSION HIDROSTATICA:
HYDROSTATIC TEST:

69 Kg/cm²

980 PSI

CLIENTE: TUCOTA

CUSTOMER: TUCOTA

PEDIDO CLIENTE/P.O. 11345

NUMERO PTM-56929, 30-2003

PEDIDO INTERNO/I.D. 11345

PARTEIDA(S) 49827-30

FECHA DATE DICTEMBER 03, 2003

TENSILE TEST

CHEMICAL ANALYSIS PERCENT WEIGHT

DESCRIPCION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (F.S.I.)	ULTIMA TENSION TENSILE STRENGTH (F.S.I.)	% ELONG. 2"	LEAIT V.875	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
15-28 TC	2360059	48 822	66 453	37	0.73	0.165	1.10	0.018	0.006	0.001	0.005	0.004	0.322	0.015	0.038	0.0025	0.013	0.020	0.003	0.0056	
TS			76 471																		
23-11 TC	2360060	54 288	70 965	34	0.76	0.165	1.08	0.016	0.006	0.001	0.002	0.004	0.316	0.031	0.035	0.0019	0.018	0.025	0.006	0.0048	
TS			78 522																		
24-16 TC	2360061	51 516	67 257	36	0.77	0.157	1.10	0.016	0.006	0.001	0.002	0.003	0.281	0.022	0.035	0.0014	0.017	0.026	0.004	0.0043	
TS			79 091																		
25-13 TC	2360062	53 851	69 040	36	0.78	0.153	1.05	0.020	0.006	0.001	0.003	0.004	0.288	0.021	0.037	0.0016	0.016	0.026	0.003	0.0049	
TS			76 789																		
10-16 TC	2360065	51 027	73 092	36	0.70	0.173	1.11	0.017	0.005	0.001	0.005	0.004	0.273	0.024	0.032	0.0026	0.019	0.022	0.005	0.0039	
TS			77 558																		
14-20 TC	2360086	52 126	65 844	37	0.79	0.162	1.11	0.021	0.006	0.001	0.002	0.003	0.282	0.016	0.044	0.0029	0.011	0.021	0.003	0.0063	
TS			75 719																		

TFICAMOS QUE LA TUBERIA AQUI DESCRITA CUMPLE Y HA SIDO RIGADA, MUESTREADA, PROBADA E INSPECCIONADA DE ACUERDO 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 PEREZ
GERENTE DE ASEGURAMIENTO DE CALIDAD
QUALITY ASSURANCE MANAGER