

PROCARSA, S.A. DE C.V.

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

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE:	TUCOTA	NUMERO	PTM-51836-2002
CUSTOMER:		NUMBER	
PEDIDO CLIENTE / P.O.	8564	FECHA	ABRIL 20, 2002
PEDIDO INTERNO / I.O.		DATE	
PARTIDA (S)			
ITEMS	25343-100 / 32539-50		

DIAMETRO: 10 3/4"      ESPESOR DE PARED: 0.365"      GRADO:      ASTM A53-B      PRESION HIDROSTATICA: 101 Kg/cm<sup>2</sup>      1430 PSI

**TENSILE TEST**

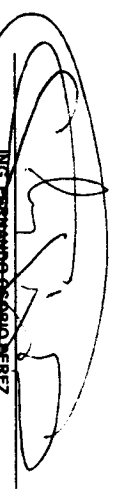
**CHEMICAL ANALYSIS PERCENT WEIGHT**

NUMPROBETA DESCRIPTION	COMADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. 2"	LEAIT YIELD	C	Mn	P	S	Cb	V	Ti	SI	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
5-13 Tc Ts	115949	44 915	61 781 70 935	38	0.73	0.155	0.92	0.017	0.006	-	-	-	0.167	0.021	0.037	0.0016	0.023	0.023	-	-	-
21-6 Tc Ts	221046	50 584	65 940 74 242	36	0.77	0.162	1.12	0.012	0.008	-	-	-	0.242	0.012	0.039	0.0030	0.025	0.029	-	-	-
38-19 Tc Ts	221051	58 252	74 224 77 735	35	0.78	0.161	1.14	0.017	0.008	-	-	-	0.196	0.015	0.038	0.0036	0.035	0.031	-	-	-
28-17 Tc Ts	221054	54 608	71 172 76 808	39	0.77	0.174	1.10	0.016	0.008	-	-	-	0.209	0.018	0.045	0.0028	0.025	0.028	-	-	-

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 BEREZ  
 GERENTE DE ASEGURAMIENTO DE CALIDAD  
 QA/HT ASSURANCE MANAGER