



FLM-005-7  
**PROCARSA, S.A. DE C.V.**

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

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE:	TICOTA	NUMERO:	PTM-51913-2002
CUSTOMER:		FECHA:	ABRIL 29, 2002
PEDIDO CLIENTE / N.O.	8568	DATE	
PEDIDO INTERNO / I.O.			
PARTIDA(S)			
ITEMS	32519-30 / 30353-20		

DIAMETRO: 10 3/4"      ESPESOR DE PARED: 0.250"      GRADO:      ASTM A53-B      PRESION HIDROSTATICA: 69 Kg/cm<sup>2</sup>      980 PSI

**PRUEBAS DE TENSION  
 TENSILE TEST**

NUMERO/ITEM DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (PSI)	ULTIMA TENSION TENSILE STRENGTH (PSI)	% ELONG. 2"	LEAD IN INCHES	CHEMICAL ANALYSIS PERCENT WEIGHT														
						C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N
6-1 TC TS	119675	63 632	74 788 83 947	35	0.85	0.172	1.13	0.014	0.007	0.003	0.005	0.003	0.223	0.031	0.042	0.0031	0.023	0.036	0.016	0.0074
25-6 TC TS	121222	52 420	72 677 79 538	35	0.72	0.180	1.12	0.017	0.007	0.001	0.002	0.004	0.245	0.015	0.045	0.0034	0.013	0.024	0.006	0.0048
17-16 TC TS	221210	50 896	68 631 74 574	38	0.74	0.170	1.08	0.019	0.008	0.001	0.004	0.004	0.180	0.016	0.041	0.0024	0.017	0.023	0.004	0.0052
14-18 TC TS	221211	52 157	67 403 74 225	38	0.77	0.161	1.08	0.012	0.005	0.001	0.002	0.004	0.220	0.013	0.038	0.0030	0.010	0.023	0.004	0.0059

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 PEREZ  
 GERENTE DE ASEGURAMIENTO DE CALIDAD  
 QUALITY ASSURANCE MANAGER