

FLM-006-7  
**PROCARSA, S.A. DE C.V.**

**CERTIFICADO DE CALIDAD  
 DE PRUEBAS FISICAS-QUIMICAS**  
 QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE:	TUCOTA	NUMERO:	PTM-52510-2002
CUSTOMER:		FECHA:	JULIO 13, 2002
PEDIDO CLIENTE / P.O.:	9157	DATE:	
PEDIDO INTERNO / I.O.:	9157		
PARTIDA (S):	3945-20		


METRO: 12 3/4"      ESPESOR DE PARED: 0.219"      GRABO:      ASTM A51-B      PRESION HIDROSTATICA: 51 Kg/cm<sup>2</sup>      720 PSI

DESCRIPCION	COLADA	LIMITE ELASTICO YIELD STRENGTH (P2.1)	ULTIMA TENSION TENSILE STRENGTH (P3.1)	% ELONG. 5"	LEAIT VARS	CHEMICAL ANALYSES PERCENT WEIGHT													
						C	Mn	P	S	CB	V	TI	SI	Cu	Al	Ca	NI	Mo	N
8-3 Tc Ts	121103	54 584	70 180	37	0.78	0.157	0.81	0.014	0.009	-	-	0.144	0.009	0.035	0.0006	0.016	0.030	-	-
4-17 Tc Ts	121109	55 819	72 943	40	0.79	0.126	0.84	0.020	0.009	-	-	0.146	0.013	0.044	0.0006	0.019	0.025	-	-
12-2 Tc Ts	121223	55 751	73 986	37	0.84	0.140	0.83	0.018	0.005	-	-	0.150	0.013	0.036	0.0002	0.014	0.024	-	-

RTIFICAMOS QUE LA TUBERIA AQUI DESCRITA CUMPLE Y HA SIDO  
 RICAADA, MUESTREADA, PROBADA E INSPECCIONADA DE ACUERDO  
 N LOS REQUISITOS APLICABLES DE LA ESPECIFICACION:

WE CERTIFY THE PPRE ABOVE MENTIONED ACCOMPLISH AND HAS  
 BEEN MANUFACTURED, SAMPLED, TESTED AND INSPECTED IN  
 ACCORDANCE WITH APPLICABLE REQUIREMENTS OF SPECIFICATIONS:

ASTM

  
 INC. FERNANDO OSORIO-BERZ  
 GERENTE DE ASEGURAMIENTO DE CALIDAD  
 QUALITY ASSURANCE MANAGER