

FLM-005-7

PROCARSA, S.A. DE C.V.

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

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE:	TUCOTA	NUMERO	PTM-52523-2002
CUSTOMER:		NUMBER	
PEDIDO CLIENTE / P.O.	9157	FECHA	JULIO 15, 2002
PEDIDO INTERNO / I.O.		DATE	
PARTIDA (S)	32945-20		
ITEMS			

DIAMETRO: 13 3/4"      ESPESOR DE PARED: 0.219"      GRADO:      ASTM A53-B      PRESION HIDROSTATICA: 51 Kg/cm<sup>2</sup>      720 PSI

**PRUEBAS DE TENSION**


**CHEMICAL ANALYSES PERCENT WEIGHT**

CON DINA	YIELD STRENGTH (P <sub>0.2</sub> )	ULTIMA TENSION TENSILE STRENGTH (P <sub>2.11</sub> )	% ELONG. 2"	LEAD T VARTS	C	Mn	P	S	Co	V	Ti	Si	Cu	Al	Ca	Ni	Mo	N	Ceq
8-3 TC Ts	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	55 819	72 943	40	0.79	0.128	0.84	0.020	0.009	-	-	-	0.146	0.013	0.044	0.0006	0.019	0.025	-	-
7-17 TC Ts	55 944	73 996	40	0.86	0.131	0.81	0.017	0.008	-	-	-	0.151	0.015	0.050	0.0002	0.019	0.025	-	-
		64 778																	
		69 682																	

ERTIFICAMOS QUE LA TUBERIA AQUI DESCRITA CUMPLE Y HA SIDO  
ABRICADA, MUESTREADA, PROBADA E INSPECCIONADA DE ACUERDO  
ON 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

  
FERNANDO OSORIO PEREZ  
SERENITE DE ASEGURAMIENTO DE CALIDAD  
QUALITY ASSURANCE MANAGER