

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-51243-2002
CUSTOMER:		NUMBER	
pedido cliente / P.O.		FECHA	FEBRERO 18, 2002
pedido interno / I.O.	8322	DATE	
partida (s)	26527-20		
ITEMS			


DIAMETRO : 14"      ESPESOR DE PARED      0.250"      GRADO :      ASTM A53-B      PRESION HIDROSTATICA:      750 PSI  
 WALL THICKNESS      0.250"      GRADE:      ASTM A53-B      ANALISIS QUIMICO % EN PESO      53 Kg/cm<sup>2</sup>

NUM. PROBETA DESCRIPCION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P <sub>0.2</sub> )	ULTIMA TENSION TENSILE STRENGTH (P <sub>2.11</sub> )	% ELONG. 2"	LEALT VARI	CHEMICAL ANALYSIS PERCENT WEIGHT														
						C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N
18-12 Tc Ts	116145	52 614	69 229 75 899	35	0.76	0.162	1.15	0.013	0.005	0.001	0.002	0.002	0.244	0.018	0.040	0.0030	0.020	0.019	0.002	0.0048
3-13 Tc Ts	116146	53 936	74 344 76 458	35	0.73	0.170	1.13	0.014	0.004	0.001	0.001	0.003	0.230	0.022	0.039	0.0019	0.017	0.026	0.002	0.0057
2-2 Tc Ts	215930	55 667	70 602 72 874	36	0.79	0.167	1.11	0.014	0.006	0.001	0.003	0.003	0.215	0.020	0.033	0.0029	0.020	0.022	0.003	0.0070

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