



FLM-405-7
PROCARSA, S.A. DE C.V.

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

CLIENTE:	TUCOTA	NUMERO:	PTM-54415-2-2003
CUSTOMER:		FECHA:	MARZO 26, 2003
PEDIDO CLIENTE / P.O.:	10040	DATE:	
PEDIDO INTERNO / I.O.:			
PARTIDA (S):			
ITEM(S):	40687-30		

DIAMETRO: 13 3/4" ESPESOR DE PARED: 0.250" GRADO: ASTM A53-B
 WALL THICKNESS: GRADE: ANALISIS QUIMICO % EN PESO: 58 Kg/cm² 820 PSI
 TENSIL & TEST CHEMICAL ANALYSES PERCENT WEIGHT

ESPECIFICACION	VALOR REALIZADO	VALOR ESTIPULADO	UNIDAD TENSION	% EXCED.	UNIDAD	C	M	P	S	Cl	Ti	SI	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
11-10 Tc	127029	56 044	68 346	37	0.62	0.165	1.11	0.019	0.007	0.003	0.004	0.202	0.012	0.038	0.0023	0.019	0.023	0.012	0.0041	
Ts			75 743																	
3-18 Tc	127036	56 263	70 610	34	0.80	0.157	1.15	0.014	0.007	0.001	0.002	0.243	0.012	0.045	0.0027	0.013	0.024	0.003	0.0054	
Ts			75 419																	
5-14 Tc	127039	52 829	68 399	34	0.77	0.180	1.14	0.017	0.006	0.003	0.004	0.230	0.043	0.034	0.0027	0.028	0.039	0.018	0.0047	
Ts			73 466																	
20-5 Tc	127036	56 144	69 058	38	0.81	0.180	1.11	0.018	0.007	0.002	0.005	0.003	0.150	0.017	0.037	0.0037	0.020	0.020	0.015	0.0046
Ts			72 139																	

CONFIRMAMOS QUE LA TUBERIA ACUÍ DESCRITA CUMPLE Y HA SIDO FABRICADA, MUESTREADA, PROBADA E INSPECCIONADA DE ACUERDO CON LOS REQUISITOS APLICABLES DE LA ESPECIFICACION: **ASTM A53-B 99**

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


 ING. FERNANDO OSORIO PEREZ
 GERENTE DE ASEGURAMIENTO DE CALIDAD
 QUALITY ASSURANCE MANAGER