

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

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

CLIENTE:	TUCOTA	NUMERO:	FTM-52499-500-2002
CUSTOMER:		FECHA:	JULIO 12, 2002
PEDIDO CLIENTE / P.O.:	9157	DATE:	
PEDIDO INTERNO / I.O.:			
PARTIDA (S):			
ITEMS:	36766-30		

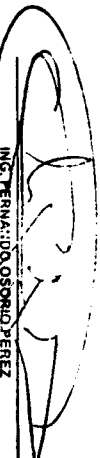
DIAMETRO: 10 3/4" ESPESOR DE PARED: 0.299" GRADO: ASTM A53-B PRESION HIDROSTATICA: 69 Kg/cm² 980 PSI
 DIAMETER: WALL THICKNESS: GRADE: CHEMICAL ANALYSIS PERCENT WEIGHT

NUM PROBETA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. ELONG.	LIMITE YIELD	ANALISIS QUIMICO % EN PESO														
						C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Ni	Mo	N	Ceq
4-13 Tc Ts	223974	52 130	67 766 72 758	38	0.77	0.162	1.10	0.013	0.004	0.001	0.005	0.003	0.209	0.023	0.036	0.0029	0.008	0.030	0.005	0.0065
7-5 Tc Ts	223975	55 356	66 430 68 723	36	0.63	0.160	1.12	0.019	0.004	0.001	0.005	0.004	0.234	0.021	0.032	0.0026	0.014	0.023	0.003	0.0070
8-9 Tc Ts	223976	53 356	66 766 71 839	37	0.80	0.170	1.12	0.014	0.005	0.001	0.005	0.003	0.200	0.019	0.030	0.0026	0.021	0.021	0.003	0.0066
2-12 Tc Ts	223978	53 691	66 081 69 719	39	0.61	0.180	1.11	0.013	0.005	0.001	0.002	0.003	0.239	0.050	0.032	0.0030	0.019	0.034	0.008	0.0073

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


 INGRID OSORIO PEREZ
 GERENTE DE ASURAMIENTO DE CALIDAD
 QUALITY ASSURANCE MANAGER