



PLM-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-52588-2002
CUSTOMER:		NUMBER	
PEDIDO CLIENTE / P.O.	9165	FECHA	JULIO 24, 2002
PEDIDO INTERNO / I.O.		DATE	
PARTIDA (S)	36766-30		
ITEMS			

DIAMETRO: 10 3/4"      ESPESOR DE PARED: 0.250"      GRADO:      ASTM A53-B      PRESION HIDROSTATICA: 69 kg/cm<sup>2</sup>      980 PSI

**PRUEBAS DE TENSION**

**ANALISIS QUIMICO % EN PESO**

**CHEMICAL ANALYSES PERCENT WEIGHT**

NUM. PROBEA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. % ELONG.	ELONG. ELONG.	CHEMICAL ANALYSES PERCENT WEIGHT														
						C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Ni	Mo	N	Ceq
4-13 TC TS	223974	52 130	67 769	36	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	55 358	72 758	38	0.83	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	53 358	66 723	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	0.0068
2-12 TC TS	223978	53 691	71 839	39	0.81	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

**ING. FERNANDO OROZCO RIVERA**  
GERENTE DE ASEGURAMIENTO DE CALIDAD  
QUALITY ASSURANCE MANAGER