

PROCARSA, S.A. DE C.V.

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

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE:	TUCOTA	NUMERO:	PTM-51118-1-2002
CUSTOMER:		NUMBER:	
PEDIDO CLIENTE / P.O.:	8051	FECHA:	FEBRERO 09, 2002
PEDIDO INTERNO / I.O.:		DATE:	
PARTIDA (S):			
ITEMS:	30778-10 / X6001-1		

DIAMETRO: 12 3/4"      ESPESOR DE PARED: 0.250"      GRADO:      ASTM A518-B      PRESION HIDROSTATICA: 58 Kg/cm<sup>2</sup>      820 PSI

**PRUEBAS DE TENSION**

**TENSILE TEST**

**CHEMICAL ANALYSIS PERCENT WEIGHT**


NUM. PROBE / DESCRIPTION	COLOAD HEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. 2"	LEBUT V.S.T.S	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
7-7 Tc Ts	118512	51 828	66 116 69 700	34	0.78	0.165	1.11	0.015	0.007	--	--	--	0.218	0.021	0.045	0.0026	0.021	0.025	0.0140	0.0062	
12-3 Tc Ts	118513	48 342	66 022 67 119	35	0.73	0.165	1.12	0.016	0.006	--	--	--	0.183	0.020	0.034	0.0022	0.019	0.021	0.0140	0.0049	
9-15 Tc Ts	163309	72 130	81 338 84 715	23	0.89	0.165	0.96	0.018	0.007	--	--	--	0.192	0.015	0.056	0.0018	0.017	0.028	0.0160	0.0050	
5-22 Tc Ts	218176	50 676	70 077 75 754	34	0.72	0.166	1.13	0.014	0.005	--	--	--	0.216	0.033	0.045	0.0026	0.014	0.024	0.0060	0.0055	
9-25 Tc Ts	218177	49 315	66 027 68 493	37	0.74	0.174	1.18	0.015	0.003	--	--	--	0.200	0.027	0.045	0.0019	0.016	0.022	0.0050	0.0051	

CERTIFICAMOS QUE LA TUBERIA ACUÍ 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 PÉREZ  
GERENTE DE ASEGURAMIENTO DE CALIDAD  
QUALITY ASSURANCE MANAGER



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