



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

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

QUALITY CERTIFICATE OF TEST PHYSICAL-CHEMICAL

CLIENTE:	TUCOYA	NUMERO	FLM-50783-2002
CUSTOMER:		NUMBER	
PEDIDO CLIENTE / P.O.	8076	FECHA	ENERO 14, 2002
PEDIDO INTERNO / I.O.		DATE	
PARTIDAS (S)			
ITEMS			

DIAMETRO	24"	ESPESOR DE PARED	0.375"	GRADO :	ASTM A53-B	PRESION HIDROSTATICA:	46 Kg/cm <sup>2</sup>	660 PSI
		WALL THICKNESS		GRADE :		HIDROSTATIC TEST:		

**TENSILE TEST**

**CHEMICAL ANALYSIS PERCENT WEIGHT**

NUM. PROBETA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (FALL)	ULTIMA TENSION TENSILE STRENGTH (FALL)	% ELONG. 1"	LEADIT VAF.S	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
102-1 Tc	ZN1366	61 378	69 528	41	0.88	0.090	0.79	0.015	0.008	0.020			0.200	0.010	0.023		0.020	0.020		0.0020	
9-1 Tc	ZN1367	59 554	71 761	38	0.86	0.080	0.72	0.020	0.010	0.010			0.180	0.020	0.021		0.030	0.020		0.0020	
21-1 Tc	ZN2595	59 776	70 432	36	0.89	0.090	0.76	0.015	0.010	0.010			0.160	0.010	0.014		0.020	0.010		0.0030	
28-9 Tc	ZN2596	59 544	68 514	37	0.87	0.080	0.78	0.015	0.011	0.010			0.180	0.020	0.016		0.030	0.020		0.0020	
68-3 Tc	ZN2597	58 558	74 561	39	0.89	0.090	0.77	0.018	0.010	0.010			0.180	0.020	0.017		0.030	0.020		0.0020	
110-2 Tc	ZN3477	61 244	65 746	42	0.89	0.080	0.74	0.012	0.009	0.010			0.180	0.020	0.012		0.020	0.020		0.0020	
106-9 Tc	ZN3478	57 780	68 601	41	0.86	0.090	0.74	0.015	0.007	0.010			0.200	0.020	0.018		0.030	0.020		0.0020	
			69 371																		
			67 065																		
			70 922																		

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 TORO PEREZ  
 GERENTE DE ASEGURAMIENTO DE CALIDAD  
 QUALITY ASSURANCE MANAGER