



PROCARSA, S.A. DE C.V.

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

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

TAMANO: 16" ESPESOR DE PARED: 0.375" GRADO: ASTM A53-B PRESION HIDROSTATICA: 69 Kg/cm<sup>2</sup> 900 PSI HOJA 2 DE 2  
 WALL THICKNESS: 0.375" GRADE: ASTM A53-B PRESSURE HYDROSTATIC: 69 Kg/cm<sup>2</sup> 900 PSI


CLIENTE: TUCOTA NUMERO: PTM-53084-2002  
 CUSTOMER: PEDIDO CLIENTE / P.O. 9437 NUMBER  
 PEDIDO INTERNO / I.O. PARTIDA (S) 29186-20 / 28565-50 / 29887-10  
 FECHA: SEPTIEMBRE 17, 2002  
 DATE

PRUEBAS DE TENSION TENSILE TEST  
 ANALISIS QUIMICO % EN PESO CHEMICAL ANALYSIS PERCENT WEIGHT  
 HIDROSTATICO TEST: 29186-20 / 28565-50 / 29887-10

INDICATORIA ABREVIATURA	GRUPO NOMENCLATURA	UNIDAD MEDIDA Y VALOR NOMINAL	REQUISITO REQUIREMIENTOS	% DEVIACION %	RESULTADO VALOR	C	Min	P	S	Cb	V	TI	SI	Cu	Al	Ca	Cr	NI	Mo	N	Ceq
14-9 Tc	216955	66 674	77 718	36	0.86	0.098	1.09	0.017	0.007	0.021	0.002	-	0.143	0.018	0.040	0.0020	0.017	0.032	0.005	0.0065	
18 Ts	216956	63 896	73 389	36	0.87	0.098	1.13	0.016	0.006	0.022	0.003	-	0.159	0.012	0.040	0.0018	0.013	0.021	0.004	0.0070	
69-3 Tc	217100	61 053	82 179	37	0.87	0.098	1.12	0.017	0.008	0.020	0.003	-	0.154	0.014	0.031	0.0042	0.027	0.028	0.012	0.0063	
169-9 Tc	217110	62 809	76 115	38	0.82	0.085	1.17	0.014	0.007	0.023	0.004	-	0.181	0.016	0.032	0.0046	0.020	0.033	0.015	0.0080	
18 Ts	217381	65 857	79 700	38	0.89	0.075	1.18	0.013	0.008	0.019	0.003	-	0.152	0.015	0.045	0.0028	0.020	0.030	0.016	0.0063	
74-9 Tc	217381	65 857	73 867	38	0.89	0.075	1.18	0.013	0.008	0.019	0.003	-	0.152	0.015	0.045	0.0028	0.020	0.030	0.016	0.0063	
18 Ts	217381	65 857	77 589	38	0.89	0.075	1.18	0.013	0.008	0.019	0.003	-	0.152	0.015	0.045	0.0028	0.020	0.030	0.016	0.0063	

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

  
 INSPECTOR JORGE GOMEZ  
 GERENTE DE ASEGURAMIENTO DE CALIDAD  
 QUALITY ASSURANCE MANAGER