



PROCARSA, S.A. DE C.V.

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

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

DIAMETRO: 8.5/8" ESPESOR DE PARED: 0.250" GRADO: ASTM A53-B

WALL THICKNESS: 0.250" GRADE: ASTM A53-B

TENSILE TEST

NUM. PROBLEMA DESCRIPCION	COLADA HAYAT	LIMITE ELASTICO YIELD STRENGTH (K.M.G)	ULTIMA TENSION TENSILE STRENGTH (K.S.I)	% ELONG. 2"	LEAD T V.G.T.S	C	Mn	P	S	CB	V	TI	SI	Cu	Al	Ca	Cr	Ni	Mn	N	Cr	
12B-8 Tc Ts	134358	66 047	71 685 75 920	34	0.91	0.079	0.76	0.011	0.004	0.032	0.004	0.005	0.207	0.281	0.042	0.0021	0.020	0.031	0.006	0.0047		
1B-11 Tc Ts	135742	53 961	70 841 76 355	35	0.76	0.172	1.08	0.025	0.010	0.002	0.004	0.004	0.292	0.017	0.035	0.0018	0.012	0.026	0.007	0.0069		
25A-1 Tc Ts	141089	53 208	69 852 76 248	36	0.76	0.180	1.17	0.010	0.009	0.001	0.004	0.003	0.217	0.030	0.038	0.0026	0.021	0.028	0.007	0.0046		
15B-5 Tc Ts	141101	56 922	69 729 76 104	35	0.82	0.162	1.08	0.014	0.007	0.001	0.004	0.003	0.193	0.067	0.035	0.0026	0.016	0.023	0.005	0.0011		
14A-3 Tc Ts	141102	55 609	68 956 76 637	35	0.81	0.166	1.10	0.019	0.004	0.001	0.005	0.004	0.173	0.019	0.034	0.0021	0.019	0.032	0.005	0.0045		
8B-21 Tc Ts	141103	55 653	69 566 75 554	35	0.80	0.179	1.10	0.015	0.006	0.001	0.004	0.003	0.183	0.021	0.033	0.0031	0.022	0.024	0.007	0.0053		
28A-17 Tc Ts	141104	57 918	70 631 75 539	34	0.82	0.172	1.11	0.016	0.006	0.001	0.005	0.003	0.194	0.054	0.033	0.0028	0.020	0.028	0.009	0.0051		
19B-10 Tc Ts	235473	53 844	71 791 74 857	36	0.75	0.170	1.10	0.016	0.009	0.001	0.005	0.004	0.270	0.016	0.040	0.0024	0.030	0.036	0.012	0.0058		

ANALISIS QUIMICO % EN PESO

CHEMICAL ANALYSIS PERCENT WEIGHT

CLIENTE: TUCOTA  
CONSUMIER: 11731  
PEDIDO CLIENTE / P.O. 47190-20 / 48642-20 / 53879-20  
PEDIDO INTERNO / I.O. 11731  
PARTIDAS (S)  
ITEMS

PRESSION HIDROSTATICA: 1220 PSI  
HIDROSTATIC TEST: 86 Kg/cm<sup>2</sup>

NUMERO: 171A-58016-2004  
FECHA: MAR/20 21 2004  
DATE

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 A53-B -99

ING. FERNANDO GONZALEZ PEREZ  
GERENTE DE ASISTENCIA TECNICA