



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

**CERTIFICADO DE CALIDAD  
 DE PRUEBA FÍSICAS-QUÍMICAS**

QUALITY CERTIFICATE OF TEST PHYSICAL-CHEMICAL

CLIENTE: TUCOTA  
 CUSTOMER:  
 PEDIDO CLIENTE / N.º: 7747  
 PEDIDO INTERNO / I.D.:  
 PARTIDA (S)  
 ITEMS

25091-30 / 27126-1  
 PRESION HIDROSTÁTICA:  
 HIDROSTATIC TEST:

58 Kg/cm<sup>2</sup>  
 820 PSI

NUMERO PTM-9423.34-2001  
 FECHA  
 DATE OCTUBRE 24, 2001

TAMANO 12 3/4" ESPESOR DE PARED 0.250" GRADO: ASTM A53-B

**PRUEBAS DE TENSION TENSILE TEST**

**ANÁLISIS QUÍMICO % EN PESO CHEMICAL ANALYSIS PERCENT WEIGHT**

NUM. PROBEYA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (PSI)	ULTIMA TENSION TENSILE STRENGTH (PSI)	% ELONG. 1"	LEU/T V.S.T.S	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Cuq
27-25 Tc Ts	13345	51 740	62 905 70 281	40	0.82	0.157	0.74	0.011	0.007	0.0022	0.0004	-	0.140	0.036	0.045	0.0008	0.010	0.016	0.0008	0.0036	
15-20 Tc Ts	33825	48 678	62 623 65 679	38	0.78	0.180	0.78	0.010	0.006	0.0022	0.0004	-	0.156	0.008	0.035	0.0016	0.004	0.008	0.0008	0.0025	
7-14 Tc Ts	33828	49 422	61 778 65 797	37	0.80	0.170	0.73	0.011	0.006	0.0021	0.0004	-	0.138	0.006	0.044	0.0004	0.004	0.009	0.0008	0.0033	
16-27 Tc Ts	43177	57 219	72 205 76 291	38	0.79	0.162	0.74	0.011	0.005	0.0022	0.0004	-	0.157	0.028	0.035	0.0001	0.006	0.012	0.0039	0.0036	
9-7 Tc Ts	43610	51 048	64 482 71 319	38	0.79	0.160	0.80	0.009	0.003	0.0018	0.0004	-	0.214	0.009	0.042	0.0008	0.002	0.007	0.0008	0.0018	
11-24 Tc Ts	114492	55 777	67 729 76 803	33	0.82	0.135	0.98	0.018	0.001	0.0030	0.0030	-	0.157	0.016	0.026	0.0026	0.018	0.035	0.0110	0.0043	
10-20 Tc Ts	114493	56 633	67 169 71 012	39	0.84	0.127	0.88	0.019	0.006	0.0010	0.0020	-	0.172	0.011	0.040	0.0040	0.012	0.023	0.0040	0.0029	
8-1 Tc Ts	214259	59 350	67 443 73 722	38	0.88	0.131	0.91	0.016	0.008	0.0010	0.0020	-	0.155	0.012	0.038	0.0030	0.013	0.024	0.0040	0.0056	
12-2 Tc Ts	214261	55 714	67 653 74 224	36	0.82	0.138	0.90	0.014	0.005	0.0030	0.0030	-	0.202	0.012	0.032	0.0029	0.020	0.022	0.0100	0.0051	

CERTIFICAMOS QUE LA TUBERIA AQUÍ 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

ROGELIO OSORIO PEREZ  
 GERENTE DE ASEGURAMIENTO DE CALIDAD  
 QUALITY ASSURANCE MANAGER