

FLM-005-7



PROCARSA, S.A. DE C.V.

**CERTIFICADO DE INSPECCION DE PRUEBAS MECANICAS Y ANALISIS QUIMICO**

INSPECTION CERTIFICATE OF MECHANICAL TESTS AND CHEMICAL ANALYSES

CLIENTE: PLESA ANAHUAC Y CIAS. S.A. DE C.V.

CUSTOMER: PEDIDO CLIENTE / P.O. 16637

PARTIDA (S) 510920-60 / 32944-40 / 93441-90 / 101404-40 / T-01-08

NUMERO NUMBER PFM-05922-2018

FECHA DATE MARZO 28, 2018

DIAMETRO EXTERIOR: 14" ESPESOR DE PARED: 0.375" GRADO: 1.130 PSI  
 OUTSIDE DIAMETER: 14" WALL THICKNESS: 0.375" GRADE: ASTM A53-B  
 REQUERIMIENTOS DE PRUEBAS DE TENSION / TENSILE TEST REQUIREMENTS REQUERIMIENTOS DE ANALISIS QUIMICO % EN PESO / CHEMICAL ANALYSES BY PERCENTAGE OF WEIGHT REQUIREMENTS

NUM. PROBETA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)		ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. 2"	LE/UT V.S.T.S	C	Min	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	CE IIW	CE Pen
		35000 PSI MIN.	60000 PSI MIN.																				
7-3 Tc	120190	51 230	64 999	67 263	45	0.78	0.100	0.83	0.013	0.008	0.002	0.002	0.005	0.239	0.023	0.050	0.002	0.013	0.021	0.007	0.0057		
Ts	121170	56 928	64 208	64 208	41	0.89	0.124	0.79	0.024	0.010	0.002	0.002	0.001	0.166	0.015	0.035	0.002	0.011	0.025	0.005	0.0055		
Ts	181384	51 967	65 460	74 733	40	0.79	0.146	0.80	0.019	0.005	0.001	0.005	0.005	0.293	0.020	0.042	0.003	0.020	0.030	0.005	0.0069		
Ts	281317	53 926	62 701	72 790	35	0.86	0.130	0.81	0.016	0.004	0.001	0.003	0.005	0.298	0.010	0.048	0.002	0.010	0.020	0.005	0.0040		
Tc	219746	51 067	60 794	69 993	45	0.83	0.100	0.78	0.014	0.008	0.002	0.002	0.003	0.211	0.039	0.037	0.002	0.032	0.023	0.006	0.0060		
Ts	219747	54 219	64 876	64 205	45	0.84	0.115	0.79	0.018	0.004	0.002	0.004	0.004	0.231	0.047	0.025	0.002	0.022	0.022	0.008	0.0055		
Ts	219748	51 375	62 626	67 273	45	0.82	0.114	0.83	0.011	0.006	0.003	0.001	0.005	0.235	0.029	0.050	0.002	0.017	0.020	0.006	0.0057		
Tc	219749	53 798	60 335	64 900	44	0.89	0.104	0.81	0.013	0.007	0.002	0.003	0.003	0.200	0.021	0.050	0.002	0.018	0.020	0.010	0.0065		
Ts	288012	75 490	84 579	89 328	30	0.89	0.084	1.11	0.013	0.003	0.043	0.003	0.007	0.175	0.030	0.035	0.002	0.030	0.020	0.007	0.0075		
Ts	288015	71 307	81 347	89 328	35	0.87	0.097	1.15	0.013	0.004	0.047	0.002	0.008	0.191	0.040	0.035	0.003	0.020	0.030	0.009	0.0074		
Ts	288131	73 295	90 115	90 115	34	0.86	0.095	1.12	0.014	0.005	0.047	0.004	0.008	0.185	0.030	0.026	0.002	0.020	0.020	0.008	0.0043		
Ts	288134	71 332	85 022	79 723	31	0.89	0.090	1.12	0.013	0.003	0.044	0.003	0.010	0.168	0.020	0.035	0.002	0.020	0.020	0.006	0.0072		
Ts	288139	75 085	86 472	86 472	31	0.88	0.094	1.15	0.020	0.004	0.043	0.003	0.007	0.194	0.030	0.043	0.002	0.030	0.030	0.007	0.0062		
Ts	813023	78 016	85 500	85 482	30	0.91	0.071	1.19	0.013	0.001	0.052	0.060	0.019	0.120	0.008	0.031	0.003	0.013	0.005	0.002	0.0037		

CERTIFICAMOS QUE LA TUBERIA ACQUI DESCRITA CUMPLE Y HA SIDO FABRICADA, MUESTREADA, PROBADA E INSPECCIONADA DE ACUERDO CON LOS REQUISITOS APPLICABLES DE LA ESPECIFICACION: ASTM A53

WE CERTIFY THAT THE ABOVE DESCRIBED PIPE HAS BEEN MANUFACTURED, SAMPLED, TESTED AND INSPECTED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATION, AND MEETS THE APPLICABLE REQUIREMENTS THEREIN

INS. ALEJANDRO ALARCON CAZARES  
 JEFE DE LABORATORIO METALURGICO  
 METALLURGICAL LABORATORY CHIEF