



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.

PEDIDO INTERNO / I.O. 141

PARTIDA (S)

ITEMS 216127-10 / 208652-10

NUMERO PTM-06876-2018

NUMBER


FECHA

DATE AGOSTO 24, 2018

DIAMETRO EXTERIOR : OUTSIDE DIAMETER : 20"	ESPESOR DE PARED : WALL THICKNESS : 0.250"	GRADO : GRADE : ASTM A53-B	PRESION HIDROSTATICA : HIDROSTATIC TEST: 37 Kg/cm ² 530 PSI
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REQUERIMIENTOS DE PRUEBAS DE TENSION / TENSILE TEST REQUIREMENTS				REQUERIMIENTOS DE ANALISIS QUIMICO % EN PESO / CHEMICAL ANALYSES BY PERCENTAGE OF WEIGHT REQUIREMENTS																
LIMITE ELASTICO / YIELD STRENGTH	ULTIMA TENSION / TENSILE STRENGTH	% ELONG.	L.E./U.T.	C	Mn	P	S	Cb	Cb+V	Cb+V+Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	CE IIW	CE Pcm
35000 PSI MIN.	60000 PSI MIN.	26 min.	---	0.300 max	1.200 max	0.050 max	0.045 max	---	---	---	---	0.500 max	---	---	0.400 max	0.400 max	0.150 max	---	---	---

NUM.PROBETA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. 2"	LE/UT Y.S.T.S	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	CE IIW	CE Pcm
59-9 Tc Ts	184981	52 518	73 234 76 611	40	0.72	0.069	1.14	0.010	0.004	0.017	0.0030	0.009	0.210	0.027	0.035	0.003	0.019	0.019	0.006	0.0052		
10-5 Tc Ts	184982	54 928	73 369 73 977	34	0.75	0.068	1.15	0.014	0.004	0.021	0.0040	0.005	0.220	0.039	0.029	0.002	0.025	0.021	0.005	0.0052		
45-5 Tc Ts	184987	53 229	71 262 76 709	35	0.75	0.078	1.14	0.009	0.004	0.020	0.0030	0.010	0.210	0.034	0.037	0.002	0.013	0.015	0.004	0.0052		
18-17 Tc Ts	184990	53 184	70 430 76 724	42	0.76	0.069	1.15	0.010	0.005	0.019	0.0030	0.009	0.210	0.041	0.038	0.003	0.015	0.026	0.007	0.0052		
3-10 Tc Ts	184991	55 056	71 787 76 902	35	0.77	0.070	1.13	0.010	0.004	0.019	0.0030	0.010	0.220	0.023	0.035	0.002	0.015	0.021	0.006	0.0052		
7-4 Tc Ts	184992	54 396	75 678 70 506	40	0.72	0.072	1.14	0.010	0.005	0.019	0.0020	0.009	0.220	0.030	0.034	0.003	0.015	0.013	0.004	0.0052		
1-18 Tc Ts	184995	57 750	73 342 77 283	38	0.79	0.078	1.15	0.016	0.005	0.018	0.0040	0.010	0.220	0.036	0.037	0.003	0.021	0.015	0.005	0.0052		
26-7 Tc Ts	184996	56 053	73 021 75 205	36	0.77	0.072	1.14	0.010	0.003	0.017	0.0020	0.009	0.200	0.038	0.039	0.003	0.018	0.017	0.005	0.0053		
52-17 Tc Ts	279036	55 622	70 788 78 832	41	0.79	0.072	1.15	0.012	0.005	0.018	0.0030	0.010	0.220	0.019	0.038	0.003	0.016	0.023	0.006	0.0051		
8-17 Tc Ts	279047	53 081	70 463 76 396	40	0.75	0.075	1.15	0.014	0.006	0.018	0.0020	0.009	0.200	0.022	0.038	0.003	0.019	0.019	0.006	0.0055		

CERTIFICAMOS QUE LA TUBERIA AQUÍ DESCRITA CUMPLE Y HA SIDO FABRICADA, MUESTREADA, PROBADA E INSPECCIONADA DE ACUERDO CON LOS REQUISITOS APLICABLES 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	 RICARDO ALEJANDRO ALARCÓN CAZARES JEFE DE LABORATORIO METALURGICO METALLURGICAL LABORATORY CHIEF
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