



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 71043-10 / 91665-20 / 93441-50 / 112052-10 / 101204-40

NUMERO PTM-06853-2018  
NUMBER

FECHA AGOSTO 22, 2018  
DATE

DIAMETRO EXTERIOR : OUTSIDE DIAMETER : 12 3/4"	ESPESOR DE PARED : WALL THICKNESS : 0.250"	GRADO : GRADE : ASTM A53-B	PRESION HIDROSTATICA: HIDROSTATIC TEST: 58 Kg/cm <sup>2</sup> 820 PSI
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**REQUERIMIENTOS DE PRUEBAS DE TENSION / TENSILE TEST 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/U.T. Y.S/T.S	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	CE IIW	CE Pcm
26-2 Tc Ts	160523	64 368	71 335 75 908	36	0.90	0.090	1.20	0.015	0.006	0.022	0.0050	0.013	0.312	0.020	0.040	0.003	0.020	0.030	0.012	0.0066		
4-12 Tc Ts	178747	59 003	71 409 73 211	36	0.82	0.080	1.17	0.012	0.003	0.021	0.0040	0.011	0.298	0.020	0.039	0.003	0.030	0.020	0.011	0.0061		
8-33 Tc Ts	181216	50 214	65 309 69 681	34	0.76	0.125	0.76	0.016	0.008	0.001	0.0020	0.004	0.280	0.020	0.031	0.002	0.020	0.020	0.005	0.0071		
1-17 Tc Ts	202367	51 961	69 175 70 770	40	0.75	0.134	0.82	0.015	0.007	0.002	0.0040	0.004	0.300	0.026	0.031	0.003	0.025	0.020	0.005	0.0060		
1-25 Tc Ts	203834	47 895	64 150 70 364	38	0.74	0.131	0.80	0.020	0.004	0.002	0.0030	0.005	0.334	0.021	0.039	0.002	0.020	0.021	0.009	0.0050		
6-26 Tc Ts	203842	53 466	65 751 69 343	38	0.81	0.129	0.79	0.015	0.005	0.002	0.0020	0.004	0.343	0.030	0.046	0.003	0.019	0.023	0.009	0.0093		
14-10 Tc Ts	287859	52 570	63 637 67 175	35	0.82	0.123	0.81	0.016	0.007	0.004	0.0030	0.004	0.291	0.030	0.039	0.003	0.030	0.030	0.012	0.0056		

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

ING. ALEJANDRO ALARCON CAZARES

JEFE DE LABORATORIO METALURGICO  
METALLURGICAL LABORATORY CHIEF