

FLM005-7

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. 16390

PARTIDA (S)

ITEMS 117347-10 / 74500-20 / 109340-20

NUMERO NUMBER PTM-06363-1-2017

FECHA DATE AGOSTO 07, 2017

DIAMETRO EXTERIOR : OUTSIDE DIAMETER :	ESPEJOR DE PARED : WALL THICKNESS :	GRADO : GRADE :	PRESION HIDROSTATICA : HYDROSTATIC TEST :
10 3/4"	0.225"	ASTM A53-B	62 Kg/cm ² 880 PSI
REQUERIMIENTOS DE PRUEBAS DE TENSION / TENSILE TEST REQUIREMENTS			
LIMITE ELASTICO / YIELD STRENGTH	% ELONG.	LE/UT.	
35000 PSI MIN.	2.5 min.	--	
ULTIMA TENSION / TENSILE STRENGTH			
60000 PSI MIN.			

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
20-16 Tc	107548	51 007	62 294	44	0.81	0.139	0.81	0.013	0.005	0.003	0.0030	0.005	0.350	0.008	0.041	0.003	0.021	0.016	0.006	0.0069		
Ts			67 249																			
11-13 Tc	110325	51 312	62 686	45	0.81	0.105	0.80	0.018	0.008	0.002	0.0020	0.003	0.215	0.018	0.045	0.003	0.020	0.022	0.005	0.0038		
Ts			66 785																			
14-28 Tc	110947	51 127	62 384	45	0.81	0.109	0.79	0.011	0.003	0.002	0.0030	0.003	0.254	0.025	0.028	0.002	0.025	0.037	0.008	0.0063		
Ts			66 522																			
2-3 Tc	151710	53 828	68 781	37	0.78	0.180	1.06	0.017	0.007	0.002	0.0040	0.004	0.210	0.040	0.039	0.002	0.030	0.040	0.009	0.0048		
Ts			75 277																			
12-21 Tc	164241	49 870	70 626	36	0.71	0.153	0.82	0.013	0.008	0.001	0.0020	0.003	0.143	0.040	0.040	0.003	0.030	0.030	0.007	0.0042		
Ts			74 404																			
8-13 Tc	209137	52 899	61 936	42	0.85	0.111	0.79	0.016	0.004	0.003	0.0020	0.003	0.243	0.026	0.034	0.004	0.019	0.025	0.007	0.0056		
Ts			64 955																			
19-28 Tc	210805	49 035	62 519	43	0.78	0.118	0.79	0.012	0.007	0.002	0.0020	0.004	0.239	0.100	0.041	0.002	0.021	0.021	0.006	0.0057		
Ts			67 231																			
53-10 Tc	274248	53 221	62 377	41	0.85	0.118	0.80	0.016	0.003	0.001	0.0040	0.005	0.302	0.020	0.036	0.002	0.020	0.030	0.005	0.0050		
Ts			70 740																			
12-28 Tc	298919	53 318	65 101	40	0.81	0.124	0.79	0.010	0.005	0.001	0.0030	0.003	0.291	0.013	0.039	0.003	0.018	0.018	0.003	0.0052		
Ts			70 155																			
6-7 Tc	298920	51 269	63 856	36	0.80	0.122	0.78	0.010	0.006	0.001	0.0030	0.003	0.290	0.037	0.040	0.003	0.033	0.038	0.014	0.0060		
Ts			71 293																			
18-28 Tc	298921	54 797	64 857	40	0.84	0.122	0.81	0.015	0.006	0.001	0.0050	0.004	0.293	0.021	0.044	0.002	0.028	0.028	0.005	0.0051		
Ts			71 598																			

CERTIFICAMOS QUE LA TUBERIA AQUÍ 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

[Handwritten Signature]

ING. LUIS ALFONSO DE LOS SANTOS RIVERA
SUPERVISOR DE LABORATORIO METALURGICO
METALLURGICAL LABORATORY SUPERVISOR

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