



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:

NUMERO PTM-05052-2017
NUMBER

PEDIDO CLIENTE /P.O.
PEDIDO INTERNO / I.O. 16424

FECHA SEPTIEMBRE 18, 2017
DATE

PARTIDA (S) 94430-20 / 194140-30 / 110229-10 / 89684-10 / 108705-10
ITEMS

DIAMETRO EXTERIOR : 16" ESPESOR DE PARED : 0.250" GRADO : ASTM A53-B PRESION HIDROSTATICA: 46 Kg/cm² 660 PSI
OUTSIDE DIAMETER : WALL THICKNESS : GRADE : HIDROSTATIC TEST:

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"	L.E./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
1-16 Tc Ts	169063	54 764	70 778 75 527	40	0.77	0.072	1.12	0.013	0.005	0.015	0.003	0.010	0.210	0.041	0.027	0.002	0.020	0.024	0.006	0.0051		
6-12 Tc Ts	182265	48 842	65 214 67 804	35	0.74	0.120	0.76	0.012	0.008	0.003	0.003	0.004	0.310	0.020	0.037	0.004	0.020	0.020	0.009	0.0072		
130-18 Tc Ts	201551	65 783	78 351 81 644	33	0.83	0.075	1.12	0.015	0.006	0.045	0.004	0.010	0.194	0.021	0.034	0.002	0.014	0.022	0.004	0.0061		
151-16 Tc Ts	273842	75 802	85 689 93 297	30	0.88	0.093	1.13	0.020	0.006	0.050	0.005	0.008	0.187	0.040	0.033	0.002	0.020	0.030	0.009	0.0051		
7-2 Tc Ts	297949	69 450	79 141 84 554	34	0.87	0.086	1.10	0.016	0.005	0.043	0.003	0.009	0.186	0.032	0.039	0.002	0.019	0.026	0.007	0.0045		
48-12 Tc Ts	297958	67 975	80 871 85 066	35	0.84	0.082	1.19	0.014	0.006	0.049	0.005	0.010	0.180	0.023	0.038	0.002	0.019	0.022	0.014	0.0080		

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

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ING. ALEJANDRO ALARCÓN CAZARES
JEFE DE LABORATORIO METALURGICO
METALLURGICAL LABORATORY CHIEF