



FLM-005-7

PROCARSA, S.A. DE C.V.

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

QUALITY 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. 15737

PARTIDA (S)

ITEMS 123983-30 / 103262-20 / 103267-30 / 95014-70

NUMERO
NUMBER

PTM-04086-1-2014

FECHA

DATE

FEBRERO 18, 2014

DIAMETRO EXTERIOR :

18"

ESPEJOR DE PARED :

WALL THICKNESS :

0.250"

GRADO :

GRADE : ASTM A53-B

PRESION HIDROSTATICA:

HIDROSTATIC TEST: 41 Kg/cm² 580 PSI

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 Pem
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	---	---	---

NUMPROBETA 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 Pem
9-7 Tc Ts	118116	52 773	70 278 74 606	38	0.75	0.069	1.18	0.014	0.004	0.019	0.003	0.011	0.239	0.027	0.031	0.003	0.018	0.022	0.008	0.0067		
2-7 Tc Ts	183855	49 577	66 653 69 055	34	0.74	0.139	0.78	0.022	0.005	0.002	0.005	0.005	0.287	0.030	0.034	0.002	0.040	0.030	0.008	0.0044		
39-10 Tc Ts	190556	54 314	67 199 71 636	38	0.80	0.076	1.15	0.013	0.004	0.013	0.0030	0.007	0.247	0.010	0.031	0.002	0.020	0.020	0.008	0.0052		
38-11 Tc Ts	190559	58 274	68 175 71 981	40	0.85	0.068	1.17	0.016	0.004	0.013	0.0030	0.009	0.245	0.020	0.038	0.002	0.020	0.020	0.008	0.0046		
294-10 Tc Ts	190696	60 195	72 564 77 265	38	0.82	0.077	1.17	0.012	0.004	0.018	0.0030	0.008	0.230	0.010	0.035	0.002	0.020	0.020	0.011	0.0045		
263-6 Tc Ts	190702	58 595	70 537 76 139	39	0.83	0.070	1.14	0.014	0.004	0.019	0.0030	0.009	0.234	0.010	0.032	0.004	0.020	0.020	0.007	0.0061		
7-3 Tc Ts	265471	45 598	63 850 71 905	40	0.71	0.160	0.67	0.024	0.008	0.020	0.0040	--	0.189	0.022	0.038	0.002	0.016	0.022	0.012	0.0060		
6-8 Tc Ts	283710	48 649	64 675 67 655	36	0.75	0.133	0.79	0.018	0.004	0.001	0.0030	0.004	0.295	0.020	0.040	0.002	0.020	0.020	0.004	0.0061		

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 -10

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 ARCON CAZARES
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METALLURGICAL LABORATORY CHIEF