

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:

NUMERO
NUMBER

PTM-05556-2016

PEDIDO CLIENTE / P.O.

PEDIDO INTERNO / I.O.

16084

FECHA
DATE

AGOSTO 20, 2016

PARTIDA (S)

ITEMS

T-16-12

DIAMETRO EXTERIOR :

ESPESOR DE PARED :

GRADO :

PRESION HIDROSTATICA:

OUTSIDE DIAMETER : 16"

WALL THICKNESS : 0.375"

GRADE : ASTM A53-B

HIDROSTATIC TEST: 69 Kg/cm² 980 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 Pcm
35000 PSI MIN.	60000 PSI MIN.	28 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
7-13 Tc Ts	1220980012	50 953	66 520 73 649	45	0.76	0.137	0.89	0.009	0.001	0.001	0.0010	0.002	0.171	0.010	0.039	0.002	0.014	0.011	0.002	0.0047		
8-16 Tc Ts	1220981012	51 866	67 840 73 257	45	0.76	0.135	0.86	0.008	0.002	0.001	0.0010	0.002	0.191	0.009	0.029	0.002	0.011	0.007	0.002	0.0036		
4-3 Tc Ts	1231059012	56 323	69 919 75 005	40	0.80	0.128	0.83	0.009	0.003	0.010	0.0020	0.001	0.159	0.010	0.040	0.003	0.014	0.014	0.002	0.0060		
9-12 Tc Ts	1241001012	57 972	73 970 79 447	38	0.78	0.138	0.84	0.008	0.004	0.006	0.0010	0.002	0.152	0.009	0.038	0.002	0.009	0.008	0.001	0.0049		

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 ALARCON CAZARES
JEFE DE LABORATORIO METALURGICO
METALLURGICAL LABORATORY CHIEF