



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. 16390  
 PARTIDA (S)  
 ITEMS 145352-10

NUMERO PTM-06363C-2017  
 NUMBER  
 FECHA  
 DATE AGOSTO 09, 2017

DIAMETRO EXTERIOR : 14" ESPESOR DE PARED : 0.438" GRADO : ASTM A53-B PRESION HIDROSTATICA: 92 Kg/cm<sup>2</sup>  
 OUTSIDE DIAMETER : WALL THICKNESS : GRADE : HIDROSTATIC TEST: 1,310 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 IIV	CE Pcm
35000 PSI MIN.	60000 PSI MIN.	29 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 IIV	CE Pcm
5-9 Tc Ts	135610	53 397	63 099 70 245	43	0.85	0.103	0.81	0.013	0.004	0.001	0.003	0.003	0.239	0.020	0.033	0.003	0.024	0.018	0.004	0.0057		

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

  
 INC. ALEJANDRO ALARCON CAZARES  
 JEFE DE LABORATORIO METALURGICO  
 METALLURGICAL LABORATORY CHIEF