

FLM-005-7



PROCARSA, S.A. DE C.V.

**CERTIFICADO DE CALIDAD  
DE PRUEBAS FISICAS-QUIMICAS**

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE: PLESA ANAHUAC Y CIAS. S.A. DE C.V.

CUSTOMER:

NUMERO PTM-77916-1-2010

NUMBER

PEDIDO CLIENTE / P.O.

PEDIDO INTERNO / I.O.

3169

FECHA

DATE AGOSTO 20, 2010

PARTIDA (S)

ITEMS

103605-80 / 103605-90 / 104469-10

DIAMETRO :

DIAMETER : 16"

ESPEJOR DE PARED

WALL THICKNESS

0.500"

GRADO :

GRADE :

ASTM A53-B

PRESION HIDROSTATICA:

HYDROSTATIC TEST:

92 Kg/cm<sup>2</sup>

1310 PSI

## PRUEBAS DE TENSION

## TENSILE TEST

## ANALISIS QUIMICO % EN PESO

## CHEMICAL ANALYSES PERCENT WEIGHT

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	Ceq
7-10 Tc Ts	191566	69 981	79 053 80 686	38	0.88	0.078	0.95	0.012	0.003	0.046	0.034	0.004	0.210	0.230	0.041	0.0031	0.020	0.020	0.012	0.0071	
13-6 Tc Ts	191568	68 121	74 767 75 025	31	0.91	0.065	0.66	0.013	0.004	0.034	0.005	0.005	0.208	0.240	0.042	0.0016	0.020	0.020	0.007	0.0065	
12-8 Tc Ts	192095	54 819	63 099 70 766	36	0.86	0.122	0.79	0.018	0.004	0.002	0.005	0.005	0.300	0.030	0.039	0.0020	0.030	0.030	0.007	0.0071	

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 -06

WE CERTIFY THE PIPE ABOVE MENTIONED ACCOMPLISH AND HAS BEEN MANUFACTURED, SAMPLED, TESTED AND INSPECTED IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF SPECIFICATIONS:

ING. ALEJANDRO ALARCON CAZARES  
SUPERVISOR DE LABORATORIO METALURGICO  
METALLURGICAL LABORATORY SUPERVISOR