

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-75687-2009

NUMBER

PEDIDO CLIENTE / P.O.

PEDIDO INTERNO / I.O. 2579

FECHA

DATE SEPTIEMBRE 19, 2009

PARTIDA (S)

ITEMS 104334-50

DIAMETRO :

DIAMETER : 20"

ESPESOR DE PARED

WALL THICKNESS

0.375"

GRADO :

GRADE : ASTM A53-B / API 5L X-42 PSL1

PRESION HIDROSTATICA:

HYDROSTATIC TEST:

100 Kg/cm²

1420 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. 1"	LR/UT Y.S./T.S.	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
12-6 Tc Ts	191885	47 700	65 253 71 953	40	0.73	0.133	0.80	0.017	0.004	0.003	0.004	0.005	0.338	0.020	0.044	0.0022	0.020	0.020	0.006	0.0062	
10-3 Tc Ts	191886	46 103	62 715 71 943	41	0.73	0.122	0.78	0.021	0.003	0.002	0.005	0.004	0.300	0.010	0.045	0.002	0.020	0.020	0.006	0.0067	
5-11 Tc Ts	191887	45 818	63 397 70 062	39	0.72	0.123	0.79	0.020	0.006	0.004	0.005	0.005	0.300	0.010	0.033	0.0019	0.020	0.020	0.006	0.0064	
7-8 Tc Ts	292015	42 481	61 195 69 495	46	0.69	0.126	0.79	0.015	0.004	0.003	0.004	0.005	0.291	0.010	0.038	0.0025	0.030	0.020	0.006	0.0054	

CERTIFICAMOS QUE LA TUBERIA AQUI DESCRITA CUMPLE Y HA SIDO FABRICADA, MUESTREADA, PROBADA E INSPECCIONADA DE ACUERDO CON LOS REQUISITOS APLICABLES DE LA ESPECIFICACION:

ANSI / ESPECIFICACION API 5L

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. FERNANDO OSORIO PEREZ
GERENTE DE ASEGURAMIENTO DE CALIDAD
QUALITY ASSURANCE MANAGER