



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:

PEDIDO CLIENTE / P.O.

PEDIDO INTERNO / I.O. 2216

PARTIDA (S)

91652-30

ITEMS

NUMERO PTM-74227-1-2009

NUMBER

FECHA

DATE MARZO 12, 2009

DIAMETRO : 20" ESPESOR DE PARED 0.375" GRADO : PRESION HIDROSTATICA: 100 Kg/cm² 1420 PSI
 DIAMETER : 20" WALL THICKNESS 0.375" GRADE : ASTM A53-B / API 5L X-42 PSL1 HIDROSTATIC TEST:

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
1-9 Tc	178755	55 800	70 631	39	0.79	0.068	1.14	0.012	0.005	0.024	0.004	0.010	0.313	0.010	0.036	0.003	0.020	0.020	0.012	0.0061	
Ts			75 614																		
7-10 Tc	278928	56 396	70 588	34	0.80	0.069	1.10	0.014	0.006	0.020	0.004	0.010	0.311	0.010	0.035	0.003	0.030	0.030	0.018	0.0067	
Ts			74 587																		

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

API SPECIFICATION 5L
ASTM A53-B -06

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

[Signature]
ING. FERNANDO OSORIO PEREZ
GERENTE DE ASEGURAMIENTO DE CALIDAD
QUALITY ASSURANCE MANAGER