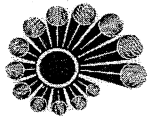


FLM-005-7



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.

NUMERO PTM-75174-2009

CUSTOMER:

NUMBER

PEDIDO CLIENTE /P.O.

PEDIDO INTERNO /I.O. 2413

FECHA

DATE JUNIO 20, 2009

PARTIDA (S)

ITEMS JP-5-01

DIAMETRO :

ESPESOR DE PARED

GRADO :

PRESION HIDROSTATICA:

DIAMETER : 24"

WALL THICKNESS 0.250"

GRADE : ASTM A53-B

HIDROSTATIC TEST: 31 Kg/cm<sup>2</sup> 440 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
64-6 Tc Ts	ZY1275	56 611	68 190 72 200	37	0.83	0.080	0.73	0.020	0.008	0.010	--	--	0.190	0.010	0.014	--	0.020	0.010	--	0.0020	
63-5 Tc Ts	ZY1277	60 093	67 605 73 793	36	0.89	0.090	0.75	0.015	0.010	0.010	--	--	0.190	0.020	0.024	--	0.030	0.010	--	0.0020	
54-11 Tc Ts	ZY1278	55 768	69 356 74 633	39	0.80	0.090	0.78	0.015	0.009	0.010	--	--	0.180	0.010	0.024	--	0.020	0.010	--	0.0020	

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:

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