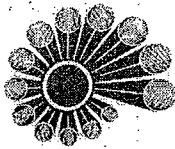


FLM-005-7



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.

15552

PARTIDA (S)

ITEMS

110217-30 / 123316-170 / 129599-70 / 105819-20

NUMERO PTM-6285-2013

NUMBER

FECHA

DATE ABRIL 23, 2013

TAMAÑO

SIZE: 16" X 16"

ESPESOR DE PARED

WALL THICKNESS

0.500"

GRADO

GRADE:

ASTM A500-B

PRESION HIDROSTATICA:

HYDROSTATIC TEST:

-----N/A-----

PRUEBAS DE TENSION

TENSILE TEST

ANALISIS QUIMICO % EN PESO

CHEMICAL ANALYSES PERCENT WEIGHT

NUMPROBETA 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
24-3 Lc	197951	54 964	64 149	45	0.85	0.131	0.78	0.011	0.007	--	--	--	0.307	0.031	0.050	0.0018	0.018	0.022	--	--
2-8 Lc	218240	48 259	62 139	45	0.77	0.100	0.77	0.013	0.007	--	--	--	0.224	0.028	0.032	0.0050	0.022	0.027	--	--
2-10 Lc	224349	51 115	64 899	30	0.78	0.114	0.78	0.015	0.007	--	--	--	0.200	0.026	0.036	0.0033	0.014	0.020	--	--
4-10 Lc	294121	54 110	65 395	38	0.82	0.114	0.79	0.016	0.005	--	--	--	0.320	0.018	0.038	0.0027	0.015	0.021	--	--

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

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

ASTM

ING. LUIS ALFONSO DE LOS SANTOS RIVERA
SUPERVISOR DE LABORATORIO METALURGICO
METALLURGICAL LABORATORY SUPERVISOR: