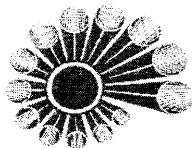


FLM-005-7



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-79001-1-2011

CUSTOMER:

NUMBER

PEDIDO CLIENTE / P.O.

PEDIDO INTERNO / I.O.

3838

FECHA

PARTIDA (S)

DATE MARZO 31, 2011

ITEMS

118065-50

DIAMETRO : DIAMETER : 16"	ESPEJOR DE PARED WALL THICKNESS 0.250"	GRADO : GRADE : ASTM A53-B	PRESION HIDROSTATICA: HIDROSTATIC TEST: 46 Kg/cm ² 660 PSI
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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/U.T Y.S/T.S	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
5-1 Tc Ts	111114	46 028	64 333 71 781	40	0.71	0.130	0.85	0.013	0.005	0.001	0.004	0.003	0.210	0.030	0.027	0.0021	0.027	0.026	0.005	0.0050	
3-1 Tc Ts	111115	47 305	64 160 73 035	42	0.73	0.116	0.79	0.010	0.005	0.002	0.002	0.003	0.222	0.025	0.030	0.0042	0.015	0.032	0.008	0.0061	
8-3 Tc Ts	211148	47 075	63 401 72 109	40	0.74	0.103	0.79	0.015	0.006	0.004	0.004	0.003	0.207	0.033	0.035	0.0029	0.030	0.028	0.008	0.0059	

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