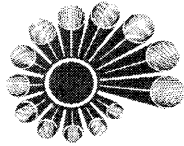


FLM-005-7



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-79001-2011

NUMBER

PEDIDO CLIENTE /P.O.

PEDIDO INTERNO / I.O. 3838

FECHA

DATE MARZO 31, 2011

PARTIDA (S)

ITEMS 118066-10

DIAMETRO : DIAMETER : 20"	ESPEJOR DE PARED WALL THICKNESS 0.500"	GRADO : GRADE : ASTM A53-B	PRESION HIDROSTATICA: HIDROSTATIC TEST: 74 Kg/cm <sup>2</sup> 1,050 PSI
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## PRUEBAS DE TENSION

## TENSILE TEST

## ANALISIS QUIMICO % EN PESO

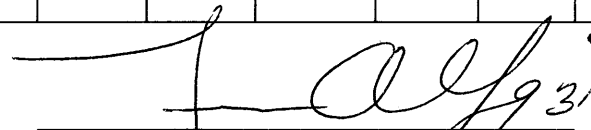
## CHEMICAL ANALYSES PERCENT WEIGHT

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
1-6 Tc Ts	111173	48 117	64 001 69 238	45	0.75	0.115	0.77	0.015	0.004	0.002	0.002	0.003	0.246	0.026	0.034	0.002	0.027	0.018	0.005	0.004	
24-3 Tc Ts	111175	47 957	63 395 68 794	48	0.75	0.114	0.78	0.016	0.005	0.004	0.002	0.006	0.240	0.029	0.048	0.002	0.025	0.021	0.011	0.005	
8-6 Tc Ts	111176	46 686	64 077 69 565	45	0.72	0.105	0.79	0.018	0.005	0.001	0.004	0.004	0.222	0.021	0.029	0.002	0.019	0.021	0.006	0.003	
3-3 Tc Ts	111177	48 164	64 620 68 732	43	0.74	0.112	0.78	0.018	0.006	0.002	0.002	0.004	0.242	0.026	0.032	0.002	0.023	0.034	0.005	0.002	

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