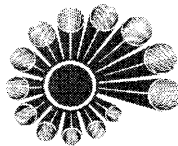


FLM-005-7



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-78814-2-2011

NUMBER

PEDIDO CLIENTE /P.O.

PEDIDO INTERNO / I.O. 3278

FECHA

DATE MARZO 02, 2011

PARTIDA (S)

ITEMS 118065-80

DIAMETRO :

DIAMETER : 20"

ESPESOR DE PARED

WALL THICKNESS

0.250"

GRADO :

GRADE :

ASTM A53-B

PRESION HIDROSTATICA:

HYDROSTATIC TEST:

37 Kg/cm²

520 PSI

PRUEBAS DE TENSION

TENSILE TEST

ANALISIS QUIMICO % EN PESO

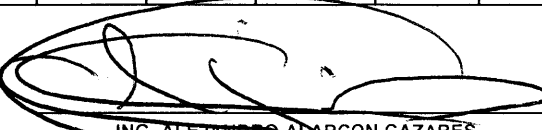
CHEMICAL ANALYSES PERCENT WEIGHT

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
11-4 Tc Ts	111175	43 042	62 629 66 290	44	0.68	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	
16-16 Tc Ts	111179	50 382	66 647 67 672	35	0.75	0.113	0.78	0.018	0.007	0.002	0.004	0.004	0.219	0.030	0.040	0.003	0.023	0.020	0.005	0.004	
1-4 Tc Ts	111180	43 855	62 777 66 256	44	0.69	0.108	0.79	0.018	0.005	0.004	0.003	0.004	0.225	0.026	0.035	0.003	0.024	0.020	0.014	0.005	
10-11 Tc Ts	211056	45 518	64 224 67 235	42	0.70	0.108	0.79	0.014	0.006	0.003	0.003	0.005	0.225	0.041	0.038	0.003	0.023	0.022	0.016	0.005	

CERTIFICAMOS QUE LA TUBERIA AQUÍ DESCRITA CUMPLE Y HA SIDO
FABRÍCADA, 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. ALEJANDRO ALARCON CAZARES
SUPERVISOR DE LABORATORIO METALURGICO
METALLURGICAL LABORATORY SUPERVISOR