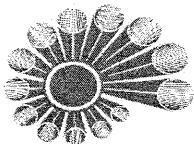


FLM-005-7



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-00840-2011

NUMBER

PEDIDO CLIENTE /P.O.

PEDIDO INTERNO / I.O.

3831

FECHA

DATE OCTUBRE 22, 2011

PARTIDA (S)

ITEMS

121573-50

DIAMETRO : DIAMETER : 12 3/4"	ESPEJOR DE PARED WALL THICKNESS 0.250"	GRADO : GRADE : ASTM A53-B	PRESION HIDROSTATICA: HYDROSTATIC TEST: 58 Kg/cm <sup>2</sup> 820 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	Ce
8-9 Tc Ts	117670	52 072	64 433 64 516	32	0.80	0.117	0.79	0.014	0.006	0.001	0.002	0.002	0.214	0.025	0.034	0.003	0.016	0.016	0.006	0.0052	
5-10 Tc Ts	215848	51 391	61 742 63 533	40	0.83	0.120	0.80	0.018	0.005	0.004	0.005	0.004	0.223	0.016	0.045	0.003	0.020	0.018	0.008	0.0050	
7-8 Tc Ts	217146	53 003	64 156 71 411	31	0.82	0.115	0.77	0.018	0.005	0.004	0.005	0.005	0.224	0.028	0.028	0.003	0.022	0.017	0.006	0.0035	

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. ALEJANDRO ALARCON CAZARES  
 SUPERVISOR DE LABORATORIO METALURGICO  
 METALLURGICAL LABORATORY SUPERVISOR