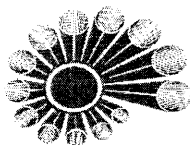


FLM-005-7



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-79038-2011

NUMBER

PEDIDO CLIENTE /P.O.

PEDIDO INTERNO / I.O. 3454

FECHA
DATE ABRIL 07, 2011

PARTIDA (S)

ITEMS 116652-40 / 117382-50

DIAMETRO : DIAMETER : 10 3/4"	ESPEJOR DE PARED WALL THICKNESS 0.365"	GRADO : GRADE : ASTM A53-B	PRESION HIDROSTATICA: HIDROSTATIC TEST: 101 Kg/cm ² 1,430 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/UT Y.S/T.S	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
8-3 Tc Ts	109671	52 120	64 738 68 780	37	0.80	0.107	0.76	0.015	0.005	0.002	0.002	0.002	0.225	0.030	0.034	0.002	0.024	0.025	0.007	0.0060	
20-6 Tc Ts	210796	55 196	65 192 70 746	44	0.84	0.100	0.78	0.014	0.004	0.002	0.003	0.003	0.228	0.038	0.031	0.003	0.019	0.038	0.010	0.0043	
8-10 Tc Ts	210801	55 113	67 649 73 630	43	0.81	0.105	0.81	0.015	0.006	0.002	0.002	0.003	0.243	0.016	0.043	0.003	0.017	0.018	0.005	0.0040	
7-10 Tc Ts	208488	56 780	68 486 74 663	40	0.82	0.121	0.82	0.018	0.006	0.001	0.003	0.004	0.248	0.028	0.042	0.002	0.019	0.021	0.007	0.0054	
9-14 Tc Ts	209137	53 406	63 330 70 682	43	0.84	0.111	0.79	0.016	0.004	0.003	0.002	0.003	0.243	0.026	0.034	0.004	0.019	0.025	0.007	0.0056	

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