

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-00061-2011

NUMBER

PEDIDO CLIENTE / P.O.

PEDIDO INTERNO / I.O. 3651

FECHA

DATE JULIO 12, 2011

PARTIDA (S)

ITEMS 112045-10 / 88978-90 / 73032-20 / 88284-90

DIAMETRO : DIAMETER : 12 3/4"	ESPESOR DE PARED WALL THICKNESS 0.375"	GRADO : GRADE : ASTM A53-B	PRESION HIDROSTATICA: HIDROSTATIC TEST: 87 Kg/cm ² 1240 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	Ce
76-3 Tc Ts	103688	65 811	72 522 77 316	42	0.90	0.075	1.17	0.015	0.006	0.019	0.005	0.011	0.240	0.016	0.045	0.0027	0.015	0.018	0.008	0.0080	
37-9 Tc Ts	103689	59 585	71 854 77 608	38	0.82	0.067	1.20	0.013	0.006	0.017	0.003	0.010	0.217	0.017	0.040	0.002	0.034	0.018	0.007	0.0041	
49-9A Tc Ts	103694	56 608	67 470 72 870	42	0.83	0.053	1.18	0.017	0.005	0.018	0.005	0.011	0.272	0.029	0.040	0.003	0.019	0.019	0.006	0.0045	
14-15 Tc Ts	103698	66 480	72 411 76 690	38	0.92	0.059	1.16	0.018	0.004	0.020	0.005	0.010	0.226	0.029	0.035	0.002	0.018	0.023	0.008	0.0078	
15-6 Tc Ts	172670	52 302	65 009 70 168	44	0.80	0.120	0.76	0.015	0.004	0.001	0.002	0.004	0.317	0.030	0.028	0.002	0.020	0.020	0.004	0.0083	
17-10 Tc Ts	263746	56 258	73 510 80 125	39	0.77	0.169	1.05	0.011	0.004	0.010	0.003	0.003	0.285	0.010	0.030	0.003	0.030	0.020	0.004	0.0045	
11-3 Tc Ts	272346	55 552	66 481 74 478	42	0.84	0.130	0.75	0.012	0.003	0.001	0.001	0.003	0.300	0.022	0.039	0.002	0.023	0.021	0.003	0.0053	

CERTIFICAMOS QUE LA TUBERIA AQUÍ DESCRITA CUMPLE Y HA SIDO FABRICADA, MUESTREADA, PROBADA E INSPECCIONADA DE ACUERDO CON LOS REQUISITOS APLICABLES DE LA ESPECIFICACION:

WE CERTIFY THE PIPE ABOVE MENTIONED ACCOMPLISH AND HAS BEEN MANUFACTURED, SAMPLED, TESTED AND INSPECTED IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF SPECIFICATIONS:

ASTM -06


ING. ALEJANDRO ALARCON CAZARES
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METALLURGICAL LABORATORY SUPERVISOR