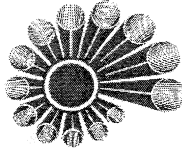


FLM-005-7



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-75862-2009

NUMBER

PEDIDO CLIENTE / P.O.

PEDIDO INTERNO / I.O. 2633

FECHA

DATE OCTUBRE 28, 2009

PARTIDA (S)

101404-40

ITEMS

DIAMETRO : DIAMETER : 14"	ESPESOR DE PARED WALL THICKNESS 0.344"	GRADO : GRADE : ASTM A53-B	PRESION HIDROSTATICA: HIDROSTATIC TEST: 72 Kg/cm ² 1030 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
205-8 Tc Ts	188543 ✓	78 900	84 985 87 939	30	0.92	0.089	1.11	0.017	0.003	0.046	0.004	0.008	0.186	0.030	0.027	0.0015	0.020	0.030	0.006	0.0070	
213-10 Tc Ts	188545 ✓	73 411	81 612 85 064	33	0.89	0.101	1.13	0.020	0.004	0.045	0.002	0.008	0.167	0.030	0.038	0.0020	0.020	0.030	0.008	0.0080	
191-16 Tc Ts	288010 ✓	67 204	80 450 87 603	35	0.83	0.097	1.11	0.019	0.003	0.048	0.004	0.007	0.177	0.030	0.029	0.0020	0.020	0.020	0.007	0.0071	
33-3 Tc Ts	288012 ✓	75 490	84 579 89 328	30	0.89	0.084	1.11	0.013	0.003	0.043	0.003	0.007	0.175	0.030	0.035	0.0015	0.030	0.020	0.007	0.0075	
260-8 Tc Ts	288129 ✓	68 922	81 131 84 352	30	0.84	0.096	1.16	0.016	0.005	0.050	0.004	0.007	0.222	0.020	0.030	0.0023	0.020	0.020	0.006	0.0061	
242-8 Tc Ts	288133 ✓	68 063	80 315 85 515	34	0.84	0.082	1.11	0.015	0.008	0.045	0.003	0.008	0.170	0.050	0.037	0.0020	0.030	0.030	0.008	0.0071	
256-4 Tc Ts	288136 ✓	75 158	80 939 81 713	32	0.92	0.095	1.13	0.014	0.004	0.046	0.003	0.009	0.200	0.020	0.039	0.0027	0.020	0.020	0.006	0.0053	
110-8 Tc Ts	288137 ✓	79 158	84 490 85 803	30	0.93	0.080	1.13	0.018	0.005	0.044	0.003	0.009	0.176	0.060	0.034	0.0026	0.040	0.030	0.011	0.0079	
58-14 Tc Ts	288139 ✓	75 085	84 834 85 500	31	0.88	0.094	1.15	0.020	0.004	0.043	0.003	0.007	0.194	0.030	0.043	0.0024	0.030	0.030	0.007	0.0062	
257-7 Tc Ts	288140 ✓	73 054	82 211 89 968	33	0.88	0.087	1.12	0.016	0.003	0.043	0.003	0.008	0.187	0.030	0.039	0.0023	0.030	0.030	0.007	0.0079	
200-5 Tc Ts	288319 ✓	77 539	83 901 85 977	28	0.92	0.086	1.13	0.017	0.003	0.045	0.003	0.008	0.172	0.030	0.038	0.0024	0.030	0.030	0.008	0.0059	
181-10 Tc Ts	288325 ✓	73 250	81 478 85 427	32	0.89	0.083	1.15	0.011	0.007	0.044	0.005	0.009	0.170	0.060	0.031	0.0028	0.030	0.030	0.018	0.0082	
151-12 Tc Ts	288405 ✓	72 390	83 258 84 557	34	0.86	0.090	1.19	0.013	0.003	0.044	0.005	0.008	0.172	0.050	0.031	0.0024	0.030	0.020	0.008	0.0068	

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. FERNANDO OSORIO PEREZ
GERENTE DE ASEGURAMIENTO DE CALIDAD
QUALITY ASSURANCE MANAGER