



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-72757-2008
NUMBER

PEDIDO CLIENTE/P.O.

PARTIDA (S)

ITEMS

1860

79946-10 / 80704-10 / 82212-10 / 92756-10 / 94430-30

FECHA OCTUBRE 04, 2008
DATE

DIAMETRO: 16" ESPESOR DE PARED 0.500"

GRADO: ASTM A53-B

PRESION HIDROSTATICA: 92 Kg/cm²

1310 PSI HOJA 1 DE 2

TENSILE TEST

CHEMICAL ANALYSES PERCENT WEIGHT

NON-PROBETA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (PSI)	ULTIMA TENSION TENSILE STRENGTH (PSI)	% ELONG. 2"	LEADIT Y.S.T.S	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
38-3 Tc	170214	62 304	74 306	37	0.84	0.165	1.04	0.017	0.004	0.010	0.005	0.005	0.294	0.010	0.029	0.0028	0.020	0.020	0.007	0.0058	
78-7 Tc	170219	65 572	78 114	35	0.85	0.180	1.10	0.017	0.005	0.009	0.005	0.003	0.255	0.020	0.037	0.0018	0.030	0.040	0.015	0.0080	
77-7 Tc	170220	60 245	89 166	36	0.82	0.180	1.04	0.013	0.004	0.010	0.002	0.005	0.257	0.020	0.036	0.0018	0.030	0.030	0.010	0.0070	
42-11 Tc	170225	65 060	84 510	35	0.85	0.175	1.06	0.012	0.007	0.010	0.002	0.005	0.306	0.040	0.041	0.0031	0.030	0.030	0.009	0.0077	
114-7 Tc	171493	64 430	85 020	40	0.82	0.173	1.11	0.014	0.005	0.010	0.002	0.005	0.286	0.020	0.046	0.0034	0.020	0.020	0.006	0.0061	
162-5 Tc	171494	62 434	76 030	35	0.82	0.177	1.12	0.015	0.005	0.011	0.002	0.005	0.274	0.030	0.048	0.0028	0.030	0.030	0.008	0.0043	
131-10 Tc	171499	61 605	85 887	34	0.79	0.165	1.12	0.017	0.005	0.011	0.003	0.005	0.279	0.030	0.035	0.0034	0.020	0.030	0.007	0.0046	
34-5 Tc	172615	58 792	86 563	40	0.83	0.150	1.10	0.019	0.009	0.011	0.002	0.004	0.252	0.020	0.050	0.0027	0.030	0.020	0.006	0.0063	
19-9 Tc	172616	63 917	84 940	40	0.83	0.165	1.13	0.013	0.007	0.009	0.002	0.004	0.308	0.040	0.050	0.0028	0.020	0.020	0.005	0.0065	
27-9 Tc	172617	64 536	77 430	38	0.83	0.171	1.19	0.020	0.006	0.011	0.005	0.005	0.315	0.020	0.042	0.0018	0.030	0.030	0.006	0.0076	
29-5 Tc	179194	70 989	85 166	37	0.86	0.084	0.93	0.015	0.004	0.045	0.032	0.004	0.192	0.230	0.039	0.0024	0.020	0.020	0.007	0.0053	
17-11 Tc	182259	49 462	89 762	38	0.78	0.121	0.81	0.014	0.007	0.004	0.005	0.005	0.342	0.020	0.046	0.0020	0.040	0.030	0.009	0.0049	
19-11 Tc	182262	47 985	67 127	42	0.73	0.122	0.79	0.013	0.005	0.001	0.002	0.004	0.294	0.020	0.043	0.0023	0.020	0.020	0.005	0.0060	
4-4 Tc	182263	49 309	65 152	40	0.77	0.133	0.78	0.016	0.005	0.004	0.004	0.005	0.318	0.010	0.024	0.0017	0.030	0.020	0.014	0.0062	
21-12 Tc	182264	49 878	63 914	41	0.76	0.124	0.79	0.013	0.008	0.003	0.004	0.005	0.300	0.020	0.041	0.0021	0.020	0.030	0.009	0.0054	

CERTIFICAMOS QUE LA TUBERIA AQUI 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 A53-B -06

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