

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.

NUMERO NUMBER PFM-71943-2008

CUSTOMER:

PEDIDO CLIENTE / P.O. 1667

PEDIDO INTERNO / I.O. 80025-40 / 77429-40

PARTIDA (S) ITEMS

FECHA DATE JULIO 17, 2008

GRADO: PRESION HIDROSTATICA: 1670 PSI

GRADO: ASTM A53-B / API 5L X-42 PSL1 117 Kg/cm²

ESPESOR DE PARED WALL THICKNESS 0.375"

PRUEBAS DE TENSION TENSILE TEST

ANALISIS QUIMICO % EN PESO CHEMICAL ANALYSES PERCENT WEIGHT

NUM. PROBEA DESCRIPTION	COLADA HEAT	TENSILE TEST		LE/UT Y.S.T.S	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
		LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)																	
66-8 Tc	170247	52 224	65 784	0.79	0.111	0.82	0.014	0.008	0.002	0.002	0.004	0.279	0.020	0.049	0.0022	0.020	0.020	0.007	0.0094	
Ts			68 263																	
37-11 Tc	170248	53 795	67 475	0.80	0.125	0.79	0.017	0.005	0.001	0.004	0.004	0.287	0.010	0.048	0.0027	0.020	0.020	0.006	0.0060	
Ts			73 460																	
61-11 Tc	170250	50 652	64 123	0.79	0.121	0.82	0.011	0.005	0.001	0.003	0.004	0.324	0.020	0.049	0.0034	0.020	0.020	0.006	0.0048	
Ts			71 312																	
3-14 Tc	267032	52 597	64 348	0.82	0.130	0.80	0.014	0.006	0.003	0.004	0.003	0.160	0.020	0.037	0.0035	0.020	0.030	0.007	0.0043	
Ts			73 300																	
9-1 Tc	267036	50 732	62 170	0.82	0.119	0.77	0.016	0.006	0.003	0.005	0.004	0.150	0.010	0.039	0.0029	0.020	0.020	0.006	0.0046	
Ts			69 180																	
5-15 Tc	267037	55 545	66 421	0.84	0.125	0.79	0.018	0.007	0.004	0.005	0.004	0.160	0.010	0.038	0.0032	0.020	0.020	0.006	0.0036	
Ts			74 413																	
24-8 Tc	267039	52 738	65 102	0.81	0.127	0.81	0.013	0.007	0.001	0.002	0.002	0.156	0.010	0.037	0.0031	0.030	0.020	0.005	0.0020	
Ts			71 137																	
12-2 Tc	267043	51 785	62 992	0.82	0.126	0.79	0.012	0.005	0.001	0.004	0.003	0.170	0.020	0.035	0.0035	0.030	0.030	0.005	0.0034	
Ts			71 395																	
23-12 Tc	267045	54 488	65 970	0.83	0.125	0.78	0.012	0.005	0.001	0.005	0.003	0.159	0.020	0.038	0.0035	0.020	0.020	0.007	0.0020	
Ts			70 304																	
44-7 Tc	267619	53 427	64 519	0.83	0.130	0.80	0.014	0.007	0.003	0.004	0.003	0.150	0.030	0.040	0.0043	0.040	0.040	0.019	0.0055	
Ts			72 296																	
53-6 Tc	267620	49 273	64 210	0.70	0.123	0.79	0.011	0.006	0.002	0.003	0.004	0.154	0.030	0.039	0.0041	0.030	0.030	0.014	0.0060	
Ts			70 554																	
24-2 Tc	267622	53 268	63 099	0.84	0.117	0.78	0.012	0.006	0.001	0.004	0.003	0.130	0.020	0.036	0.0029	0.020	0.030	0.010	0.0049	
Ts			68 824																	
59-1 Tc	270264	52 272	65 294	0.80	0.125	0.79	0.015	0.008	0.001	0.003	0.003	0.292	0.020	0.050	0.0030	0.020	0.020	0.006	0.0046	
Ts			71 283																	

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:

API SPECIFICATION 5L

ASTM A53-B-06

[Signature]

ING. FERNANDO OSORIO PEREZ

GERENTE DE ASEGURAMIENTO DE CALIDAD

QUALITY ASSURANCE MANAGER