



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. NÚMERO: PTM-72206-2008
 CUSTOMER: PEDIDO CLIENTE/P.O. 1735
 PEDIDO INTERNO/I.O. PARTIDA (S) 93441-50/71055-10
 FECHA: AGOSTO 16, 2008
 DATE

DIAMETRO: 12.34" ESPESOR DE PARED: 0.330" GRADO: ASTM A53-B PRESION HIDROSTATICA: 77 Kg/cm² 1090 PSI
 WALL THICKNESS: GRADE: ANALISIS QUIMICO % EN PESO

NUM. PROBETA DESCRIPTION	COLADA HEAT	PRUEBAS DE TENSION TENSILE TEST			CHEMICAL ANALYSES PERCENT WEIGHT															
		LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. ELONG. %	C	Min	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
1-19 TC TS	181216	49 707	65 729	35	0.125	0.76	0.016	0.008	0.001	0.002	0.004	0.280	0.020	0.031	0.002	0.020	0.020	0.005	0.0071	
19-8 TC TS	261201	62 634	68 980	37	0.090	1.12	0.016	0.006	0.026	0.003	-	0.288	0.020	0.043	0.0021	0.020	0.030	0.007	0.0064	
72-9 TC TS	261992	63 496	70 334	36	0.074	1.18	0.012	0.003	0.022	0.003	-	0.323	0.020	0.039	0.0024	0.020	0.030	0.005	0.0044	
5-20 TC TS	280998	48 290	64 112	35	0.126	0.76	0.015	0.005	0.001	0.002	0.005	0.305	0.010	0.037	0.002	0.020	0.020	0.006	0.0050	
4-18 TC TS	281000	50 682	69 782	33	0.134	0.76	0.021	0.007	0.001	0.004	0.005	0.300	0.010	0.038	0.002	0.020	0.020	0.006	0.0050	
			68 385																	

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. FERRNANDO OSORNO PEREZ
 GERENTE DE ASEGURAMIENTO DE CALIDAD
 QUALITY ASSURANCE MANAGER