



FLM-005-7
PROCARSA, S.A. DE C.V.

**CERTIFICADO DE CALIDAD
 DE PRUEBAS FISICAS-QUIMICAS**

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

PESA ANAHUAC Y CIA S. S.A. DE C.V.

NUMERO PTM-7241-2008

CLIENTE:
 CUSTOMER:
 PEDIDO CLIENTE / P.O.
 PEDIDO INTERNO / I.O.
 PARTIDA (S)
 ITEMS

77429-40 / 80025-40 / 95014-30 / 71075-10

FECHA
 DATE
 AGOSTO 20, 2008

DIAMETRO : 16" ESPESOR DE PARED WALL THICKNESS 0.375" GRADO : ASTM A53-B ANALISIS QUIMICO % EN PESO 69 Kg/cm² 980 PSI
 DIAMETER : 16" WALL THICKNESS 0.375" GRADE : ASTM A53-B CHEMICAL ANALYSES PERCENT WEIGHT 69 Kg/cm² 980 PSI

NOM. PROBEA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. 2"	LEU/T Y.F.T.S.	CHEMICAL ANALYSES PERCENT WEIGHT															
						C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
48-11 Tc	167471	57 018	67 439	35	0.85	0.127	0.79	0.019	0.005	0.002	0.005	0.004	0.188	0.010	0.038	0.0036	0.030	0.020	0.022	0.0056	
TS			73 379																		
61-11 Tc	170250	50 652	64 123	40	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																		
12-13 Tc	183349	65 095	72 952	35	0.89	0.090	0.64	0.009	0.004	0.031	0.003	0.004	0.219	0.210	0.049	0.0022	0.020	0.020	0.004	0.0060	
TS			77 701																		
20-4 Tc	183351	61 005	71 233	36	0.86	0.076	0.65	0.012	0.003	0.033	0.003	0.004	0.243	0.220	0.027	0.0022	0.020	0.020	0.005	0.0079	
TS			78 704																		
5-10 Tc	261030	56 636	66 576	42	0.85	0.090	0.75	0.010	0.004	0.023	0.002	0.005	0.208	0.250	0.047	0.0017	0.020	0.030	0.005	0.0047	
TS			72 368																		
53-6 Tc	267620	49 273	64 210	40	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	36	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																		
25-11 Tc	267623	48 963	60 873	40	0.80	0.126	0.79	0.013	0.008	0.002	0.004	0.003	0.141	0.040	0.029	0.0035	0.030	0.030	0.014	0.0062	
TS			70 320																		
9-12 Tc	267624	52 235	63 734	36	0.82	0.121	0.79	0.020	0.004	0.002	0.005	0.003	0.149	0.040	0.027	0.0036	0.030	0.030	0.012	0.0056	
TS			72 027																		

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

