

PROCARSA, S.A. DE C.V.

**CERTIFI DO DE CALIDAD
DE PRUEBAS FISICAS-QUIMICAS**

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

FLM-005-7

NUMERO PTM-50767-2002

CUSTOMER:

COTA

PEDIDO CLIENTE / P.O.

8075

PARTIDA (S)

20289-10 / 20766-20

FECHA

ENERO 11, 2002

DIAMETRO: 12 3/4"

ESPESOR DE PARED

0.219"

GRADO:

ASTM A53-B

ANALISIS QUIMICO % EN PESO

51 kg/cm²

720 PSI

PRUEBAS DE TENSION

TENSILE TEST


CHEMICAL ANALYSIS PERCENT WEIGHT

NUM/PROBETA DESCRIPTION	COLOADA HEAT	LIMITE ELASTICO YIELD STRENGTH (KSI)	ULTIMA TENSION TENSILE STRENGTH (KSI)	% ELONG. 1"	LEULT VS7.5	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
1-19 TC TS	207795	48 161	65 318 72 264	41	0.74	0.134	0.90	0.012	0.006	-	-	-	0.181	0.013	0.043	0.0017	0.014	0.026	-	0.0065	
6-14 TC TS	210914	56 657	68 907 71 040	36	0.82	0.143	0.93	0.014	0.005	-	-	-	0.187	0.024	0.027	0.0036	0.021	0.033	-	0.0070	
7-28 TC TS	210915	55 640	67 370 74 176	39	0.83	0.136	0.90	0.013	0.006	-	-	-	0.194	0.018	0.039	0.0038	0.017	0.031	-	0.0051	
1-12 TC TS	210916	53 316	68 768 75 629	40	0.76	0.150	0.92	0.015	0.006	-	-	-	0.190	0.029	0.036	0.0031	0.024	0.034	-	0.0060	
10-3 TC TS	210977	53 896	68 128 73 656	41	0.78	0.158	0.94	0.016	0.006	-	-	-	0.180	0.017	0.038	0.0024	0.036	0.025	-	0.0074	

CERTIFICAMOS QUE LA TUBERIA ACUÍ 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


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