

PROCARSA S.A. DE C.V.

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

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

PROCARSA S.A. DE C.V.

NUMERO
NUMBER

PTM-61950-2005

CLIENTE
CUSTOMER

FECHA
DATE JUNIO 30, 2005

PEPSA ANILAC Y CIA S.A. DE C.V.

PEPISO CLIENTE/P.O.
PEPISO INTERNO/E.O.

13753

PARIDAD(S)
ITEM(S)

JP-5-01 / YG-1-00

PRESION HIDROSTATICA
HYDROSTATIC TEST:

31 Kg/cm²

440 PSI

DIAMETRO: 24"
DIAMETER: 24"

ESPESOR DE PARED
WALL THICKNESS

0.250"

GRADO:
GRADE:

ASTM A53-B

PRUEBAS DE TENSION
TENSILE TEST

ANALISIS QUIMICO % EN PESO
CHEMICAL ANALYSES PERCENT WEIGHT

NUM PROBLETA DESCRIPTION	COLADA HOT	LIMIT ELASTICO YIELD STRENGTH (PSI)	ELIMINA TENSION TENSILE STRENGTH (PSI)	ALONG. INCH.	RECT. ASTS	C	Mn	P	S	CB	V	TI	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
64-6 TC TS	ZY1275	56 611	68 180 72 200	37	0.83	0.080	0.73	0.020	0.008	0.010	--	--	0.190	0.010	0.014	--	0.020	0.010	--	--	--
61-6 TC TS	ZY1276	56 168	67 924 71 476	38	0.83	0.090	0.75	0.018	0.006	0.010	--	--	0.190	0.020	0.023	--	0.030	0.020	--	--	--
63-5 TC TS	ZY1277	60 093	67 605 73 793	36	0.89	0.090	0.75	0.015	0.010	0.010	--	--	0.190	0.020	0.024	--	0.030	0.010	--	--	--
56-5 TC TS	ZY2622	62 375	70 172 71 891	36	0.89	0.090	0.76	0.018	0.011	0.010	--	--	0.190	0.010	0.017	--	0.020	0.010	--	--	--
102-1 TC TS	164226	53 121	67 792 75 652	40	0.78	0.060	0.67	0.013	0.010	0.011	--	--	0.221	0.090	0.042	--	0.0100	0.020	--	--	--
104-6 TC TS	164227	60 836	70 788 78 241	34	0.86	0.070	0.71	0.016	0.009	0.013	--	--	0.240	0.080	0.043	--	0.0200	0.020	--	--	--
124-12 TC TS	164233	59 570	73 765 82 319	38	0.81	0.080	0.74	0.014	0.012	0.011	--	--	0.237	0.100	0.050	--	0.0200	0.020	--	--	--
125-5 TC TS	269143	56 703	72 889 78 997	37	0.78	0.080	0.72	0.013	0.006	0.014	--	--	0.219	0.070	0.036	--	0.0200	0.020	--	--	--
21-7 TC TS	269144	59 812	69 647 78 070	40	0.86	0.070	0.76	0.015	0.009	0.015	--	--	0.245	0.070	0.037	--	0.0200	0.020	--	--	--
48-3 TC TS	269146	53 883	67 237 73 712	42	0.80	0.060	0.69	0.013	0.007	0.012	--	--	0.225	0.050	0.031	--	0.0100	0.020	--	--	--

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 -02

ING. FERNANDO T. ANDRÉS PÉREZ

