



FLM-005-7

PROCARSA, S.A. DE C.V.
CERTIFICADO DE CALIDAD
DE PRUEBAS FISICAS-QUIMICAS
 QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE: TUCCOTA
 PEDIDO CLIENTE / P.O. 9157
 PEDIDO INTERNO / I.O. 9157
 PARTIDA(S) JP-3-00 / JP-6-01 / YG-3-00
 ITEMS
 PRESION HIDROSTATICA: 46 Kg/cm² 660 PSI
 HIDROSTATIC TEST:
 ANALISIS QUIMICO % EN PESO
 CHEMICAL ANALYSES PERCENT WEIGHT

DIAMETRO: 24" ESPESOR DE PARED 0.375" GRADO: ASTM A53-B
 DIAMETER: 24" WALL THICKNESS 0.375" GRADE: ASTM A53-B

PRUEBAS DE TENSION
TENSILE TEST

NUM/PROBETA DESCRIPTION	COJADA BEAT	LIMITE ELASTICO YIELD STRENGTH (KSI)	ULTIMA TENSION TENSILE STRENGTH (KSI)	% ELONG. 2"	LEGT Y/LFT	C	Mn	P	S	Cb	V	Ti	SI	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
9-1 Tc Ts	ZN1367	59 554	69 183	38	0.86	0.080	0.72	0.020	0.010	0.010	-	-	0.180	0.020	0.021	-	0.030	0.020	-	-	-
34-9 Tc Ts	ZY26888	53 401	70 432	39	0.77	0.090	0.74	0.017	0.006	0.010	-	-	0.200	0.020	0.017	-	0.020	0.020	-	-	-
58-2 Tc Ts	ZY26889	56 161	74 573	38	0.81	0.090	0.74	0.015	0.008	0.010	-	-	0.180	0.010	0.017	-	0.020	0.010	-	-	-
32-4 Tc Ts	ZY26890	57 146	69 121	37	0.82	0.080	0.78	0.017	0.012	0.010	-	-	0.200	0.010	0.022	-	0.030	0.020	-	-	-
43-8 Tc Ts	ZY26891	53 172	72 516	37	0.78	0.090	0.78	0.018	0.010	0.010	-	-	0.180	0.010	0.017	-	0.020	0.010	-	-	-
106-9 Tc Ts	ZN3478	57 780	68 946	41	0.86	0.090	0.74	0.015	0.007	0.010	-	-	0.200	0.020	0.018	-	0.030	0.020	-	-	-
33-2 Tc Ts	ZY3657	55 594	75 078	40	0.81	0.100	0.74	0.012	0.007	0.010	-	-	0.200	0.010	0.017	-	0.020	0.010	-	-	-
71-5 Tc Ts	164203	61 108	68 566	37	0.83	0.070	0.84	0.015	0.009	0.013	-	-	0.230	0.050	0.042	-	0.0200	0.010	-	-	-
130-7 Tc Ts	164210	62 988	73 689	37	0.88	0.090	0.76	0.010	0.009	0.014	-	-	0.248	0.080	0.053	-	0.0200	0.030	-	-	-
81-6 Tc Ts	164211	62 273	72 454	39	0.86	0.080	0.77	0.011	0.017	0.013	-	-	0.243	0.070	0.048	-	0.0100	0.010	-	-	-
52-3 Tc Ts	268079	60 497	74 405	38	0.83	0.080	0.79	0.014	0.008	0.012	-	-	0.220	0.040	0.035	-	0.0100	0.010	-	-	-
35-4 Tc Ts	268093	59 257	72 947	40	0.88	0.080	0.77	0.011	0.005	0.013	-	-	0.220	0.040	0.038	-	0.0200	0.010	-	-	-

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

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

NUMERO FTM-52506-2002
 NUMBER
 FECHA JULIO 12, 2002
 DATE