



FLM-005-7

PROCARSA, S.A. DE C.V.

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

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE: TUCOTA
CUSTOMER:

PEDIDO CLIENTE /P.O. 11336

PEDIDO INTERNO /I.O. 11336

PARTIDA (S) 32944-40

ITEMS

GRADO: ASTM A53-B

ESPESOR DE PARED WALL THICKNESS 0.375"

DIAMETRO: 14"

ANALISIS QUIMICO % EN PESO

PRESSION HIDROSTATICA: 79 Kg/cm²

HIDROSTATIC TEST:

1121

**PRUEBAS DE TENSION
TENSILE TEST**

NUM./PROBETA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. 2"	LB/UT YGTS	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr
1-8 Tc TS	121135	51 477	64 482 70 175	42	0.80	0.137	0.85	0.017	0.007	--	--	--	0.175	0.012	0.035	0.0003	0.019
16-2 Tc TS	121136	55 950	64 071 68 454	38	0.87	0.143	0.83	0.017	0.009	--	--	--	0.176	0.016	0.039	0.0005	0.017
27-9 Tc TS	121168	55 173	64 685 68 633	42	0.85	0.142	0.83	0.018	0.006	--	--	--	0.217	0.014	0.045	0.0027	0.015
21-4 Tc TS	121169	55 804	65 618 71 196	45	0.85	0.142	0.81	0.018	0.006	--	--	--	0.192	0.015	0.037	0.0018	0.016
20-16 Tc TS	121170	56 928	64 208 74 733	41	0.89	0.124	0.79	0.024	0.010	--	--	--	0.166	0.015	0.035	0.0023	0.011
4-6B Tc TS	121171	54 571	62 475 69 207	41	0.87	0.137	0.81	0.020	0.008	--	--	--	0.202	0.014	0.030	0.0025	0.019
25-8 Tc TS	121172	58 848	66 919 73 317	40	0.88	0.135	0.81	0.012	0.010	--	--	--	0.212	0.014	0.042	0.0028	0.020
13-14 Tc TS	221152	54 448	64 500 69 294	42	0.84	0.139	0.81	0.015	0.006	--	--	--	0.198	0.011	0.038	0.0028	0.018

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 -99

ING. FERNANDO OSO
GERENTE DE ASEGURAMIENTO