



FLM-005-7

PROCARSA, S.A. DE C.V.
CERTIFICADO DE CALIDAD
DE PRUEBAS FISICAS-QUIMICAS

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE:	TUCOTA	NUMERO	FTM-0005-0002
CUSTOMER:		NUMBER	
PEDIDO CLIENTE / P.O.	9602	FECHA	NOVIEMBRE 1984
PEDIDO INTERNO / I.O.		DATE	
PARTIDA (S)	37945-30		

AMETRO: 12.34" ESPESOR DE PARED: 0.230" GRADO: ASTM A53-B PRESION HIDROSTATICA: 50 Kg/cm² 620 PSI
 AMETER: 12.34" WALL THICKNESS: 0.230" GRADE: ASTM A53-B HYDROSTATIC TEST: 50 Kg/cm² 620 PSI

TENSILE TEST

CHEMICAL ANALYSIS PERCENT WEIGHT

IDENTIFICACION	CONDA	LABOR EXTERIOR	USAMA TENSION	% ELONG.	LAST	C	Mn	P	S	CS	V	TI	Si	Ca	Al	Cr	Cu	Ni	Mg
(#21)	(#21)	(#21)	(#21)	(#21)	(#21)	(#21)	(#21)	(#21)	(#21)	(#21)	(#21)	(#21)	(#21)	(#21)	(#21)	(#21)	(#21)	(#21)	(#21)
1-12 TC	121075	53 528	65 570	40	0.82	0.137	0.81	0.018	0.009	-	-	-	0.174	0.013	0.042	0.0004	0.028	0.028	-
TS			72 868																
10-12 TC	121077	53 549	66 401	38	0.81	0.150	0.81	0.019	0.008	-	-	-	0.150	0.013	0.030	0.0004	0.028	0.028	-
TS			73 213																
21-15 TC	121107	53 425	63 041	41	0.85	0.132	0.81	0.013	0.007	-	-	-	0.141	0.010	0.040	0.0005	0.016	0.002	-
TS			69 699																
19-6 TC	221072	53 689	63 889	35	0.84	0.137	0.81	0.017	0.010	-	-	-	0.159	0.021	0.043	0.0008	0.025	0.029	-
TS			70 382																
12-14 TC	221073	52 861	65 812	40	0.80	0.145	0.81	0.019	0.008	-	-	-	0.142	0.013	0.039	0.0004	0.028	0.028	-
TS			73 435																

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-69

[Signature]
 MARIO GONZALEZ
 GERENTE DE ASESORAMIENTO DE CALIDAD
 QUALITY ASSURANCE MANAGER