



FILM-005-7
PROCARSA, S.A. DE C.V.

**CERTIFICADO DE CALIDAD
 DE PRUEBAS FISICAS-QUIMICAS**
 QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE:	TUCOTA	NUMERO	PTV-52111-2002
CUSTOMER:		NUMBER	
PEDIDO CLIENTE / P.O.	8571	FECHA	MAYO 28, 2002
PELUBO INTERNO / I.O.		DATE	
PARTIDA (S)	JP-1-00 / JP-2-00 / KS-1-98		

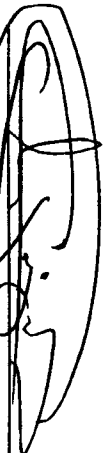
DIAMETRO: 24" ESPESOR DE PARED: 0.250" GRADO: ASTM A53-B PRESION HIDROSTATICA: 440 PSI
 WALL THICKNESS: GRADE: ANALISIS QUIMICO % EN PESO 31 kg/cm²

NUMEROS DE DESCRIPCION	CODABA BEAT	LIMITE ELASTICO YIELD STRENGTH (psi)	ULTIMA TENSION TENSILE STRENGTH (psi)	% ELONG. 2"	LEAD. YIELD	CHEMICAL ANALYSES PERCENT WEIGHT															
						C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
27-12 TC TS	ZN1363	61 507	71 052	35	0.87	0.090	0.78	0.016	0.008	-	-	-	0.180	0.020	0.019	-	-	0.030	0.020	-	-
68-10 TC TS	ZN1365	62 566	71 925	36	0.87	0.080	0.77	0.020	0.008	-	-	-	0.190	0.010	0.020	-	-	0.030	0.010	-	-
20-12 TC TS	ZN2589	71 047	82 575	36	0.86	0.090	0.95	0.018	0.008	-	-	-	0.190	0.020	0.017	-	-	0.030	0.020	-	-
4-2 TC TS	ZN2800	69 966	84 171	38	0.87	0.090	0.98	0.014	0.007	-	-	-	0.190	0.010	0.018	-	-	0.020	0.010	-	-
9-14 TC TS	ZN2801	73 653	85 009	38	0.89	0.080	0.83	0.014	0.006	-	-	-	0.180	0.020	0.016	-	-	0.030	0.020	-	-
7-3 TC TS	ZN2802	60 669	86 559	34	0.87	0.080	0.78	0.015	0.011	-	-	-	0.190	0.010	0.022	-	-	0.020	0.010	-	-
7-6 TC TS	KA4334	58 201	72 851	35	0.80	0.150	0.61	0.017	0.007	-	-	-	0.200	0.010	0.040	-	-	0.020	0.010	-	-
			73 836																		

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 ASESURAMIENTO DE CALIDAD
 QUALITY ASSURANCE MANAGER