



FLM-005-7

PROCARSA, S.A. DE C.V.

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

CLIENTE:	NOTA	NUMERO	PTM-47162.65-2001
CUSTOMER:		NUMBER	
PEDIDO CLIENTE / P.O.		FECHA	MAYO 23, 2001
PEDIDO INTERNO / I.O.	6906	DATE	
PARTIDA (S)			
ITEMS	22521-10		

TAMANO	10 3/4"	ESPESOR DE PARED	0.250"	GRADO:	ASTM A53-B	PRESION HIDROSTATICA:	69 Kg/cm ²	980 PSI
SIZE:		WALL THICKNESS		GRADE:		HYDROSTATIC TEST:		

PRUEBAS DE TENSION

ANALISIS QUIMICO % EN PESO

NOM/PROBETA DESCRIPCION	CORAMA HEAT	LUBRIFICACION Y OILS	EXTENSION GALL	TENSILE STRENGTH GALL	ELONGATION %	LIBRITY YARDS	CHEMICAL ANALYSES PERCENT WEIGHT														
							C	Mn	P	S	CD	V	TI	SI	Cu	Al	Ca	Cr	NI	Mo	N
3-23 Tc Ts	112252	54 418	70 743	41	0.77	0.147	0.80	0.015	0.005	-	-	-	0.185	0.044	0.039	0.0041	0.025	0.033	-	0.0052	
4-20 Tc Ts	112253	51 980	67 207	35	0.77	0.152	0.89	0.014	0.006	-	-	-	0.175	0.041	0.040	0.0038	0.035	0.033	-	0.0063	
30-7 Tc Ts	112438	49 375	68 302	40	0.72	0.130	0.80	0.017	0.008	-	-	-	0.210	0.025	0.038	0.0022	0.023	0.034	-	0.0010	
12-28 Tc Ts	212166	54 573	72 084	41	0.77	0.147	0.83	0.015	0.004	-	-	-	0.161	0.039	0.048	0.0027	0.020	0.034	-	0.0054	
7-13 Tc Ts	212167	51 315	70 945	36	0.77	0.145	0.98	0.015	0.006	-	-	-	0.129	0.034	0.050	0.0027	0.020	0.038	-	0.0077	
19-23 Tc Ts	212168	51 279	68 288	38	0.75	0.148	0.95	0.017	0.003	-	-	-	0.184	0.050	0.039	0.0037	0.028	0.040	-	0.0095	
			76 415																		

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

[Signature] 931