



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.

PEDIDO INTERNO / I.O. 11742

PARTIDA (S) 52833-10

NUMERO PTM-58099-2-2004

NUMBER

FECHA MARZO 30, 2004

DATE

DIAMETRO: 20" ESPESOR DE PARED 0.375" WALL THICKNESS 0.375"

PRUEBAS DE TENSION

GRADO: ASTM A53-B

ASTM A53-B

PRESION HIDROSTATICA: 790 PSI

ANALISIS QUIMICO % EN PESO 56 Kg/cm²

790 PSI

TENSILE TEST

CHEMICAL ANALYSES PERCENT WEIGHT

NUMPROBETA DESCRIPCION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (F _{0.2})	ULTIMA TENSION TENSILE STRENGTH (F _U)	% ELONG. E _{2"}	LEBLT VARIAS	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
18-1 Tc Ts	138572	55 422	70 316 79 071	37	0.79	0.170	1.13	0.017	0.006	0.002	0.004	0.003	0.195	0.017	0.036	0.0022	0.024	0.032	0.009	0.0061	
24-4 Tc Ts	238284	46 854	66 698 76 557	40	0.70	0.156	1.13	0.012	0.007	0.002	0.004	0.003	0.216	0.027	0.034	0.0025	0.022	0.029	0.009	0.0073	
9-8 Tc Ts	238286	49 052	66 482 76 185	38	0.74	0.167	1.10	0.012	0.004	0.001	0.002	0.003	0.227	0.030	0.040	0.0025	0.023	0.031	0.006	0.0075	
6-8 Tc Ts	238287	50 079	69 369 76 058	37	0.72	0.172	1.11	0.013	0.006	0.002	0.004	0.004	0.235	0.029	0.037	0.0029	0.025	0.037	0.009	0.0073	
3-3 Tc Ts	238288	50 473	69 069 77 776	37	0.73	0.165	1.09	0.016	0.007	0.003	0.004	0.004	0.237	0.017	0.039	0.0029	0.025	0.035	0.01	0.0076	
28-8 Tc Ts	238289	53 242	70 760 80 133	38	0.75	0.163	1.10	0.020	0.006	0.002	0.005	0.004	0.226	0.024	0.043	0.0026	0.030	0.035	0.009	0.0054	

CERTIFICAMOS QUE LA TUBERIA AGUI 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 OSORIO FERRER
GERENTE DE ASEGURAMIENTO DE CALIDAD

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