



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

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

CLIENTE: T. TOTA
CUSTOMER: T. TOTA
PEDIDO CLIENTE / P.O. 6017
PARTIDA (S) 24493-2
ITEMS
NUMERO PTM-45430-1-2001
FECHA ENERO 26, 2001
DATE

TAMANO 8 5/8" ESPESOR DE PARED 0.250" GRADO: ASTM A53-B PRESION HIDROSTATICA: 1220 PSI
WALL THICKNESS 0.250" GRADE: ASTM A53-B ANALISIS QUIMICO % EN PESO 86 Kg/cm²

NUM. PROBEA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (Q ₂₁₀)	ULTIMA TENSION TENSILE STRENGTH (Q ₂₁₁)	% ELONG. %	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
21B-10 Tc Ts	23237	51 196	67 892	37	0.184	0.69	0.012	0.002	-	0.0004	0.003	0.163	0.010	0.037	0.0010	0.003	0.007	0.002	0.0030	
3A-5 Tc Ts	33225	53 479	64 175	38	0.193	0.63	0.011	0.003	-	0.0004	0.003	0.149	0.016	0.050	0.0007	0.006	0.010	0.003	0.0032	
74A-11 Tc Ts	42902	54 551	69 687	44	0.176	0.63	0.011	0.007	-	0.0004	0.003	0.135	0.013	0.047	0.0004	0.006	0.010	0.002	0.0032	
95A-10 Tc Ts	42903	51 660	65 171	42	0.185	0.64	0.011	0.002	-	0.0004	0.003	0.161	0.016	0.052	0.0016	0.007	0.010	0.001	0.0027	
10B-9 Tc Ts	42905	50 214	62 987	39	0.180	0.81	0.011	0.002	-	0.0004	0.004	0.207	0.011	0.045	0.0009	0.006	0.008	0.002	0.0034	

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 ASESORAMIENTO DE CALIDAD
QUALITY ASSURANCE MANAGER