



PROCARSA, S.A. DE C.V.

CERTIFICADO DE CALIDAD
DE PRUEBAS FISICAS-QUIMICAS

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE: TUBOS Y CONEXIONES, S.A. DE C.V. NUMERO PTM-45418.22-2001

CUSTOMER: PEDIDO CLIENTE / P.O. 6017


PEDIDO INTERNO / I.O. PARTIDA (S) 24493-2

FECHA DATE ENERO 24, 2001

TAMANO SIZE: 8.58" ESPESOR DE PARED WALL THICKNESS: 0.250" GRADO: ASTM A53-B PRESION HIDROSTATICA: 86 Kg/cm² 1220 PSI

PRUEBAS DE TENSION TENSILE TEST

CHEMICAL ANALYSES PERCENT WEIGHT

NUM/PROBETA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (F.S.L)	ULTIMA TENSION TENSILE STRENGTH (F.S.L)	% ELONG. 2"	U/DUT V.F.T.S	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Cu	Cr	Ni	Mo	N	Ceq
14A-8 Tc Ts	12906	53 181	61 424	44	0.87	0.184	0.68	0.012	0.001	-	0.0004	0.003	0.147	0.010	0.040	0.0003	0.002	0.006	0.001	0.0021	
85A-13 Tc Ts	23176	54 455	66 936	39	0.76	0.185	0.75	0.011	0.003	-	0.0004	0.002	0.153	0.012	0.042	0.0006	0.003	0.007	0.002	0.0026	
12A-9 Tc Ts	33224	53 285	71 310	40	0.81	0.180	0.65	0.013	0.001	-	0.0004	0.003	0.167	0.042	0.041	0.0020	0.010	0.017	0.002	0.0040	
3A-5 Tc Ts	33225	53 479	65 581	38	0.83	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	
10B-9 Tc Ts	42905	50 214	71 091	39	0.80	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:																					
 INS-FERNANDO OSORIO PEREZ GERENTE DE ASEGURAMIENTO DE CALIDAD QUALITY ASSURANCE MANAGER																					