



PROCARSA, S.A. DE C.V.

**CERTIFI DO DE CALIDAD
DE PRUEBAS FISICAS-QUIMICAS**

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

DIAMETRO: 12 3/4" ESPESOR DE PARED: 0.406" GRADO: ASTM A53-B

WALL THICKNESS: 0.406" GRADE: ASTM A53-B

PRUEBAS DE TENSION TENSILE TEST


ANALISIS QUIMICO % EN PESO CHEMICAL ANALYSIS PERCENT WEIGHT

NUM PROBLETA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (F.S.I.)	ULTIMA TENSION TENSILE STRENGTH (F.S.I.)	% ELONG. E ₂	LEAD IN %T.S	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
12-16 TC TS	33471	52 770	65 707 72 681	37	0.80	0.170	0.80	0.011	0.006	0.0025	0.0004	0.002	0.173	0.036	0.039	0.0001	0.010	0.013	0.0045	0.0042	
8-8 TC TS	83467	50 858	63 982 71 826	42	0.79	0.166	0.75	0.015	0.001	0.0022	0.0025	0.0026	0.200	0.013	0.047	0.0020	0.005	0.008	0.0029	0.0027	
11-8 TC TS	118511	54 976	68 636 78 840	37	0.80	0.150	1.11	0.014	0.007	0.002	0.005	0.005	0.195	0.018	0.039	0.0029	0.021	0.031	0.015	0.0042	
10-9 TC TS	118513	50 767	68 012 74 800	32	0.75	0.165	1.12	0.016	0.006	0.002	0.003	0.003	0.183	0.020	0.034	0.0022	0.019	0.021	0.014	0.0049	
18-6 TC TS	118515	55 209	67 265 74 688	35	0.82	0.159	1.10	0.015	0.008	0.003	0.003	0.004	0.195	0.021	0.041	0.0027	0.022	0.025	0.015	0.0049	
15-8 TC TS	218178	52 949	65 856 73 934	40	0.80	0.158	1.15	0.014	0.004	0.001	0.002	0.003	0.191	0.022	0.040	0.0028	0.013	0.029	0.005	0.0050	
3-14 TC TS	218183	55 172	69 601 78 376	38	0.79	0.163	1.06	0.019	0.007	0.003	0.004	0.001	0.182	0.018	0.036	0.0036	0.017	0.027	0.008	0.0055	

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-PÉREZ
GERENTE DE ASEGURAMIENTO DE CALIDAD
QUALITY ASSURANCE MANAGER

CLIENTE: TICOTIA
CUSTOMER:
PEDIDO CLIENTE / P.O. 8075
PARTIDA(S) 3078-30 / 27126-30
ITEMS
PRESION HIDROSTATICA: 94 Kg/cm²
HIDROSTATIC TEST: 1340 PSI
NUMERO PTN-51019-2002
NUMBER
FECHA FEBRERO 01, 2002
DATE