



PROCARSA, S.A. DE C.V.

**CERTIFICADO DE CALIDAD  
DE PRUEBAS FISICAS-QUIMICAS**

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE: TUCOTIA  
CUSTOMER: **C**  
PEDIDO CLIENTE / P.O. NO.: 8075  
PEDIDO INTERNO / I.O. PARTIDA (S): 31540-10

NUMERO: P.I.N-51029-2002  
NUMBER  
FECHA: FEBRERO 01, 2002  
DATE

DIAMETRO: 12 3/4" ESPESOR DE PARED: 0.250" GRADO: ASTM A53-B PRESSION HIDROSTATICA: 820 PSI  
WALL THICKNESS: 0.250" GRADE: ASTM A53-B ANALISIS QUIMICO: % EN PESO: 58 Kg/cm<sup>2</sup>

**PRUEBAS DE TENSION TENSILE TEST**

NUM. PROBEA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (PSI)	ULTIMA TENSION TENSILE STRENGTH (PSI)	% ELONG. % ELONG.	LENG. INCHES	CHEMICAL ANALYSIS PERCENT WEIGHT														
						C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N
2-5 TC TS	118514	49 736	64 736 67 904	39	0.77	0.151	1.11	0.012	0.006	0.0020	0.0030	0.0030	0.188	0.022	0.045	0.0023	0.020	0.017	0.0130	0.0051
15-1 TC TS	120159	52 003	68 587 78 582	33	0.76	0.179	1.15	0.016	0.008	0.0030	0.0040	0.0040	0.197	0.014	0.037	0.0021	0.025	0.024	0.0160	0.0061

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