



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

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

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE: TUCCOTA
 CUSTOMER:
 PEDIDO CLIENTE / P.O. 8988
 PEDIDO INTERNO / I.O. PARTIDA (S) JP-7401

NUMERO PTM-52044-2002
 NUMBER
 FECHA DATE MAYO 20, 2002

TAMANO SIZE: 24" ESPESOR DE PARED WALL THICKNESS: 0.500" GRADO: API 5L X-42 PRESION HIDROSTATICA: 111 Kg/cm² 1580 PSI

**PRUEBAS DE TENSION
 TENSILE TEST**

NUMEROMETRIA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (F ₂₁₁)	ULTIMA TENSION TENSILE STRENGTH (F ₂₁₁)	% ELONG. 2"	LONGIT. VERTS	C	Mn	P	S	Cb	V	TI	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
28-5 Tc TS	ZY1278	48 862	65 692 71 504	45	0.74	0.090	0.78	0.015	0.009	0.010	-	-	0.180	0.010	0.024	-	0.020	0.010	-	-	0.0020

**CHEMICAL ANALYSES PERCENT WEIGHT
 ANALISIS QUIMICO % EN PESO**

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:

API SPECIFICATION 5L
 FORTY-SECOND EDITION, JANUARY 2000
 EFFECTIVE DATE : JULY 1, 2000

ING. FERNANDO OCHOA TORRES
 GERENTE DE ASEGURAMIENTO DE CALIDAD
 QUALITY ASSURANCE MANAGER