



FLM-005-7

PROCARSA, S.A. DE C.V.

CERTIFICADO DE CALIDAD
DE PRUEBAS FISICAS-QUIMICAS

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE: 11-COTA
CUSTOMER:
PEDIDO CLIENTE / P.O. 6881
PARTIDA (S)
ITEMS 21839-20

NUMERO PTM-47904-1-2001
NUMBER

FECHA JULIO 04, 2001
DATE

TAMANO 8.58"

ESPESOR DE PARED WALL THICKNESS

0.188"

GRADO:

API 5L X-42

ANALISIS QUIMICO % EN PESO
CHEMICAL ANALYSIS PERCENT WEIGHT

% Kg/cm²

1370 PSI

PRUEBAS DE TENSION TENSILE TEST

NUMERO DE DESCRIPCION	COLADA MEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. %	LEAD Y Y.F.T.S.	C	Min	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
21B-30 TC	111939	52 656	69 714	38	0.76	0.140	0.90	0.014	0.005	--	--	--	0.178	0.020	0.041	0.0020	0.019	0.030	--	0.0070	
19-B-16 TC	211645	54 773	70 222	38	0.78	0.129	0.90	0.018	0.006	--	--	--	0.179	0.033	0.046	0.0020	0.025	0.039	--	0.0067	
			72 454																		

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 SL

FORTY-SECOND EDITION, JANUARY, 2000

EFFECTIVE DATE: JULY 1, 2000

ING. FERNANDO OSORIO PEREZ
GERENTE DE SEGUIMIENTO DE CALIDAD
QUALITY ASSURANCE MANAGER