



PROCARSA, S.A. DE C.V.

CERTIFICADO DE CALIDAD  
DE PRUEBAS FISICAS-QUIMICAS

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE: CUSTOMER:	BUENA VISTA	NUMERO NUMBER	PTM-9085-1-2001
PEDIDO CLIENTE / P.O. PARTIDA (S)		FECHA DATE	SEPTIEMBRE 28, 2001
PEDIDO INTERNO / I.O.			
ITEMS	16788-30		

TAMANO: 16" ESPESOR DE PARED: 0.500" GRADO: ASTM A53-B PRESION HIDROSTATICA: 92 Kg/cm<sup>2</sup> 1310 PSI  
 WALL THICKNESS: 0.500" GRADE: ASTM A53-B ANALISIS QUIMICO: % EN PESO

NUM PROBEA DESCRIPTION	COLADA HEAT	PRUEBAS DE TENSION					ANALISIS QUIMICO: % EN PESO														
		LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. 1"	LEQUIT V.878		CHEMICAL ANALYSIS PERCENT WEIGHT														
						C	Mn	P	S	CB	V	TI	SI	Cu	Al	Ca	Cr	NI	Mo	N	Ceq
3-3 TC TS	107903	47 400	65 274 70 041	41	0.73	0.146	0.93	0.016	0.007	--	--	--	0.197	0.024	0.037	0.0017	0.022	0.032	--	0.0059	
14-4 TC TS	207845	47 780	66 065 71 236	42	0.72	0.141	0.89	0.013	0.005	--	--	--	0.178	0.016	0.025	0.0019	0.019	0.036	--	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:

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

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