



PROCARSA, S.A. DE C.V.

**CERTIFICADO DE CALIDAD
DE PRUEBAS FÍSICAS-QUÍMICAS**

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE:	TUCOTA	CLIENTE:	TUCOTA	CLIENTE:	TUCOTA
CUSTOMER:		CUSTOMER:		CUSTOMER:	
pedido cliente / P.O.:	7724	pedido cliente / P.O.:	7724	pedido cliente / P.O.:	7724
pedido interno / I.O.:		pedido interno / I.O.:		pedido interno / I.O.:	
partida (s)	23097.30	partida (s)	23097.30	partida (s)	23097.30
ITEMS		ITEMS		ITEMS	
PRISION HIDROSTATICA:	160 Kg/cm ²	PRISION HIDROSTATICA:	160 Kg/cm ²	PRISION HIDROSTATICA:	160 Kg/cm ²
HIDROSTATIC TEST:	2280 PSI	HIDROSTATIC TEST:	2280 PSI	HIDROSTATIC TEST:	2280 PSI
ANALISIS QUIMICO % EN PESO		ANALISIS QUIMICO % EN PESO		ANALISIS QUIMICO % EN PESO	
CHEMICAL ANALYSIS PERCENT WEIGHT		CHEMICAL ANALYSIS PERCENT WEIGHT		CHEMICAL ANALYSIS PERCENT WEIGHT	

TAMANO: 8 5/8" ESPESOR DE PARED: 0.312" GRADO: API 5L X-42

WALL THICKNESS: 0.312" GRADE: API 5L X-42

NUM. PROBETA DESCRIPCION	CALDAJA HEAT	LIMITE ELASTICO YIELD STRENGTH (Q.S.L)	ULTIMA TENSION TENSILE STRENGTH (Q.S.L)	% ELONG. 2"	EQUIV. Y.G.T.S	CHEMICAL ANALYSIS PERCENT WEIGHT															
						C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
13B-9 Tc	212559	51 131	65 274	43	0.78	0.147	0.89	0.016	0.005	--	--	--	0.197	0.014	0.034	0.0024	0.015	0.033	--	0.0072	
TS			68 859																		
11A-13 Tc	212737	51 400	64 304	41	0.80	0.144	0.90	0.016	0.007	--	--	--	0.168	0.016	0.040	0.0032	0.020	0.032	--	0.0058	
TS			68 405																		
7B-9 Tc	212744	51 332	62 473	41	0.82	0.139	0.89	0.012	0.005	--	--	--	0.180	0.011	0.041	0.0032	0.018	0.030	--	0.0063	
TS			69 176																		
5A-13 Tc	212745	48 190	62 856	43	0.77	0.147	0.89	0.014	0.006	--	--	--	0.178	0.010	0.037	0.0044	0.019	0.028	--	0.0064	
TS			67 296																		
4A-12 Tc	212746	50 995	62 930	39	0.81	0.138	0.87	0.011	0.006	--	--	--	0.187	0.012	0.033	0.0042	0.018	0.027	--	0.0058	
TS			68 898																		

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 OSORIO PEREZ
GERENTE DE ASEGURAMIENTO DE CALIDAD
QUALITY ASSURANCE MANAGER