



PROCARSA S.A. DE C.V.

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

QUALITY CERTIFICATE OF TEST PHYSICAL-CHEMICAL

CLIENTE: TUCOTVA
 CUSTOMER: PUNDO CLIENTE P/O: 11739
 PUNDO INTERNO / I/O: 11739
 PARTIDA(S): 41782-20
 ITEMS: 211 Kg/cm² 3000 PSI
 PRESSION HIDROSTATICA: HIDROSTATIC TEST:
 ANALISIS QUIMICO % EN PESO
 ANALYSIS CHEMICAL % BY WEIGHT
 NUMERO: PTTN-S0035-2004
 PER STA: MARZO 23, 2004
 DATE:

DIAMETRO: 10 3/4" ESPESOR DE PARED: 0.500" GRADO: API 5L X-42
 DIAMETER: 10 3/4" WALL THICKNESS: 0.500" GRADE: API 5L X-42

PRUEBAS DE TENSION TENSILE TEST

NUMEROS DE MUESTRA SAMPLING NUMBER	CINCUENTA HEAT	LIMITE ELASTICO YIELD STRENGTH (PSI)	ULTIMA TENSION TENSILE STRENGTH (PSI)	% ELONG. %	LONGIT. V.S.T.S	C	Mn	P	S	Cl	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mn	N	Ceq
6.8 Tc	127862	61 426	75 005	40	0.82	0.161	1.10	0.015	0.007	0.001	0.002	0.003	0.213	0.041	0.035	0.0035	0.028	0.035	0.007	0.0050	
TS			80 505																		
10.7 Tc	127863	56 022	73 363	39	0.76	0.176	1.12	0.012	0.005	0.001	0.001	0.003	0.190	0.026	0.033	0.0028	0.018	0.027	0.005	0.0079	
TS			78 544																		
8.3 Tc	127865	60 712	73 486	39	0.83	0.161	1.10	0.015	0.007	0.001	0.002	0.003	0.213	0.041	0.035	0.0037	0.028	0.035	0.007	0.0060	
TS			81 401																		
3-14 Tc	127866	66 421	75 538	38	0.88	0.172	1.09	0.018	0.006	0.001	0.004	0.003	0.201	0.026	0.034	0.0020	0.017	0.026	0.004	0.0065	
TS			80 767																		

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

MG. FERNANDO OSORIO PEREZ
 GERENTE DE ASEGURAMIENTO DE CALIDAD
 QUALITY ASSURANCE MANAGER