



PROCARSA, S.A. DE C.V.

CERTIFICADO DE CALIDAD  
DE PRUEBAS FISICAS-QUIMICAS

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE:	TICOTIA	NUMERO:	171158014-2004
CUSTOMER:		NUMBER:	
PRODUCTO/CLIENTE/PAO:	11738	FECHA:	MARZO 24, 2004
PERIODO INTERNO/LO:		DATE:	
PARTIDA(S):			
ITEMS:	44449-30		

DIAMETRO: 14" ESPESOR DE PARED: 0.500" GRADO: API 5L X-42 PRESION HIDROSTATICA: 179 kg/cm<sup>2</sup> 2550 PSI  
DIAMETER: 14" WALL THICKNESS: 0.500" GRADE: API 5L X-42 HYDROSTATIC TEST: ANALISIS QUIMICO % EN PESO

NUM./PROBETA DESCRIPCION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (σ <sub>2.11</sub> )	ULTIMA TENSION TENSILE STRENGTH (σ <sub>2.11</sub> )	% ELONG. 1"	LENET YSYS	CHEMICAL ANALYSIS PERCENT WEIGHT														
						C	Min	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N
5-3 TC TS	131569	52 996	72 836 78 635	37	0.73	0.159	1.08	0.012	0.007	0.001	0.003	0.003	0.207	0.028	0.041	0.0027	0.013	0.025	0.006	0.0052
2-1 TC TS	131570	55 586	72 493 79 197	38	0.77	0.174	1.17	0.012	0.007	0.001	0.002	0.003	0.215	0.029	0.036	0.0027	0.014	0.027	0.007	0.0053
7-12 TC TS	231529	53 890	73 672 79 024	38	0.73	0.175	1.10	0.016	0.007	0.001	0.002	0.002	0.216	0.039	0.045	0.0034	0.014	0.032	0.006	0.0056

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: JUN 3, 2000

MIG. FERNANDO OSORIO PEREZ  
GERENTE DE ASI GUARANTIA DE CALIDAD

GERENTE DE ASI GUARANTIA DE CALIDAD