



FLM-005-7
PROCARSA, S.A. DE C.V.

**CERTIFICADO DE CALIDAD
 DE PRUEBAS FISICAS-QUIMICAS**
 QUALITY CERTIFICATE OF TEST PHYSICAL-CHEMICAL

CUSTOMER:	TUCOTA	CLIENTE:	TUCOTA
ORDER NUMBER:	11722	ORDER NUMBER / P.O.:	11722
ORDER DATE:	APR 20 11 2001	ORDER DATE / P.O.:	APR 20 11 2001
ORDER REFERENCE:	44330-10	ORDER REFERENCE:	44330-10

DIAMETRO: 14" ESPESOR DE PARED: 0.438" GRADO: API 5L X-42 PRESSION HIDROSTATICA: 157 K/CM² 2210 PSI
 WALL THICKNESS: 0.438" GRADE: API 5L X-42 PRESSION HIDROSTATICA: 157 K/CM² 2210 PSI

PRUEBAS DE TENSION
 TENSILE TEST

NUM. PRUEBA DESCRIPCION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (PSI)	ULTIMA TENSION TENSILE STRENGTH (PSI)	% ELONG. 2"	LENGT INCHES	C	Mn	P	S	CB	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mn	N	Cu
13-7 TC TS	132422	57 654	70 498 76 720	36	0.82	0.180	1.10	0.015	0.008	0.002	0.005	0.004	0.207	0.059	0.045	0.0023	0.030	0.034	0.014	0.0060	
2-7 TC TS	132428	55 725	64 938 77 621	37	0.86	0.161	1.13	0.016	0.008	0.002	0.005	0.004	0.210	0.023	0.033	0.0027	0.021	0.021	0.013	0.0035	
5-15 TC TS	232372	56 258	70 210 78 956	36	0.80	0.168	1.11	0.013	0.008	0.002	0.004	0.004	0.220	0.036	0.045	0.0031	0.022	0.033	0.013	0.0053	

CHEMICAL ANALYSIS PERCENT WEIGHT

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

ING. FERNANDO OSORIO PEREZ