



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

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

CUSTOMER:	PLESA ANAHUAC S.A. DE C.V.	NUMERO NUMBER	FTM-58453-2004
PEDIDO CLIENTE / P.O.	12097	FECHA DATE	MAYO 06, 2004
PEDIDO INTERNO / I.O.			
PARTIDA (S) ITEMS	49330-39		

ETRO: 12 3/4"	ESPESSOR DE PARED WALL THICKNESS	0.250"	GRADO: GRADE:	API 5L X-42	PRESION HIDROSTATICA: 98 Kg/cm ²	1400 PSI
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PRUEBAS DE TENSION

CHEMICAL ANALYSIS PERCENT WEIGHT

DESCRIPCION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (σ _{EL})	ULTIMA TENSION TENSILE STRENGTH (σ _{SL})	% ELONG. 2"	LEADY Y.S.T.S.	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ce
1-16 TC TS	136419	53 498	69 959	35	0.76	0.176	1.14	0.013	0.006	0.003	0.004	0.004	0.210	0.021	0.036	0.0017	0.028	0.032	0.009	0.0047	
6-11 TC TS	236218	49 974	74 441	35	0.71	0.180	1.10	0.012	0.006	0.001	0.003	0.003	0.159	0.013	0.039	0.0015	0.009	0.022	0.003	0.0060	
3-10 TC TS	236225	47 069	74 490	35	0.72	0.154	1.10	0.016	0.007	0.001	0.002	0.003	0.174	0.014	0.042	0.0019	0.018	0.024	0.005	0.0050	
16-7 TC TS	236226	51 189	72 243	36	0.76	0.155	1.10	0.013	0.006	0.001	0.002	0.003	0.181	0.029	0.041	0.0017	0.021	0.047	0.009	0.0046	

EFICAMOS QUE LA TUBERIA AQUI DESCRITA CUMPLE Y HA SIDO
 ICADA, MUESTREADA, PROBADA E INSPECCIONADA DE ACUERDO
 OS 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: JUL Y 1, 2000

GERENTE DE ASEGURAMIENTO DE CALIDAD
 QUALITY ASSURANCE MANAGER