

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

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

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE:	TUCOTA	NUMERO	PTM-45782-2001
CUSTOMER:		NUMBER	
PERDIDO CLIENTE / P.O.	6017	DATE	FEBRERO 22, 2001
PERDIDO INTERNO / I.O.			
PARTIDA (S)	20289-10		


TAMANO: 12 3/4" ESPESOR DE PARED: 0.219" GRADO: ASTM A53-B PRESION HIDROSTATICA: 51 Kg/cm² 720 PSI
 SIZE: 12 3/4" WALL THICKNESS: 0.219" GRADE: ASTM A53-B HYDROSTATIC TEST: 51 Kg/cm² 720 PSI

NUM. PROBE DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (F.S.I.)	ULTIMA TENSION TENSILE STRENGTH (F.S.I.)	% ELONG. 2"	LEWIT V.F.T.S	ANALISIS QUIMICO % EN PESO CHEMICAL ANALYSIS PERCENT WEIGHT														
						C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N
13-1 Tc Ts	210693	59 613	70 594 71 963	37	0.84	0.150	0.91	0.019	0.005	--	--	--	0.187	0.016	0.038	0.0029	0.018	0.031	--	0.0032
4-16 Tc Ts	208784	54 275	66 302 70 536	37	0.82	0.149	0.90	0.021	0.005	--	--	0.182	0.013	0.032	0.0027	0.015	0.023	--	0.0052	

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:

ASTM


 ING. FERNANDO OSORNO PEREZ
 GERENTE DE ASEGURAMIENTO DE CALIDAD
 QUALITY ASSURANCE MANAGER