



PROCARSA, S.A. DE C.V.

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

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE:	TUCOTA	NUMERO	PTM-54324.27-2003
CUSTOMER:		NUMBER	
PEDIDO CLIENTE / P.O.	10040	FECHA	MARZO 13, 2003
PEDIDO INTERNO / I.O.		DATE	
PARTIDA (S)			
ITEMS	40687-30		

DIAMETRO: 12 3/4" ESPESOR DE PARED: 0.250" GRADO: ASTM A53-B PRESION HIDROSTATICA: 58 Kg/cm² 820 PSI

PRUEBAS DE TENSION

CHEMICAL ANALYSES PERCENT WEIGHT

IDENTIFICACION	GRABADA	LIMITE ELASTICO	ULTIMA TENSION	% ELONG.	LEWIT	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N.	Ceq
DESCRIPTION	HEAT	(P.S.I.)	(P.S.I.)	2"	VALUES																
11-10 Tc	127029	56 044	68 346	37	0.82	0.165	1.11	0.019	0.007	0.003	0.004	0.004	0.202	0.012	0.036	0.0023	0.019	0.023	0.012	0.0041	
Ts			75 743																		
20-5 Tc	127036	56 144	69 058	38	0.81	0.180	1.11	0.018	0.007	0.002	0.005	0.003	0.150	0.017	0.037	0.0037	0.020	0.020	0.015	0.0046	
Ts			72 139																		
3-19 Tc	127038	56 263	70 610	34	0.80	0.157	1.15	0.014	0.007	0.001	0.002	0.003	0.243	0.012	0.045	0.0027	0.013	0.024	0.003	0.0054	
Ts			75 419																		
5-14 Tc	127039	52 829	68 399	34	0.77	0.180	1.14	0.017	0.006	0.003	0.004	0.004	0.230	0.043	0.034	0.0027	0.028	0.039	0.018	0.0047	
Ts			73 466																		

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 A53-B -99


ING. FERNANDO OSSORIO PÉREZ
GERENTE DE ASEGURAMIENTO DE CALIDAD
QUALITY ASSURANCE MANAGER