



FLM-005-7

PROCARSA, S.A. DE C.V.

CERTIFICADO DE CALIDAD
DE PRUEBAS FISICAS-QUIMICAS

QUALITY CERTIFICATE OF TEST PHYSICAL-CHEMICAL

CLIENTE:	TI COTA	NUMERO	PTM-54369-2003
CUSTOMER:		NUMBER	
PEDIDO CLIENTE / P.O.	10041	FECHA	MARZO 18, 2003
PEDIDO INTERNO / I.O.		DATE	
PARTIDA(S)			
ITEMS	40687-20 / 32945-20		

DIAMETRO: 12 3/4" ESPESOR DE PARED: 0.219" GRADO: ASTM A53-B PRESSION HIDROSTATICA: 51 Kg/cm² 720 PSI

PRUEBAS DE TENSION

CHEMICAL ANALYSIS PERCENT WEIGHT

NUM/PROBETA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P _{0.2})	ULTIMA TENSION TENSILE STRENGTH (P _{0.2})	% ELONG. 2"	LEADIT YGTS	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
1-15 Tc Ts	127034	50 485	72 634 73 011	37	0.70	0.175	1.10	0.016	0.006	-	-	-	0.218	0.014	0.041	0.0024	0.017	0.024	-	-	-
8-15 Tc Ts	127027	52 365	70 692 75 486	35	0.74	0.180	1.14	0.022	0.007	-	-	-	0.159	0.017	0.039	0.0022	0.017	0.029	-	-	-
13-15 Tc Ts	127035	51 475	69 881 72 018	36	0.74	0.165	1.07	0.017	0.007	-	-	-	0.195	0.016	0.036	0.0028	0.020	0.023	-	-	-
7-25 Tc Ts	227455	57 322	73 572 76 571	35	0.78	0.159	1.07	0.013	0.007	-	-	-	0.203	0.027	0.045	0.0023	0.022	0.022	-	-	-
4-17 Tc Ts	121109	55 819	70 905 73 996	40	0.79	0.126	0.84	0.020	0.009	-	-	-	0.146	0.013	0.044	0.0006	0.019	0.025	-	-	-

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 SOROTI
GERENTE DE ASEGURAMIENTO DE CALIDAD
QUALITY ASSURANCE MANAGER