



FLM-685-7

PROCARSA, S.A. DE C.V.

CERTIFICADO DE CALIDAD  
DE PRUEBAS FISICAS-QUIMICAS

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE: TUCOTA  
NUMERO: PTM-55497-1-2003

CUSTOMER: TUCOTA

PEDIDO CLIENTE / P.O. 10801

PEDIDO INTERNO / I.O.

PARTIDA (S) JP-7-01 / JP-4-06

ITEMS

FECHA: AGOSTO 04, 2003

DATE

DIAMETRO: 24" ESPESOR DE PARED: 0.500" GRADO: ASTM A53-B PRESION HIDROSTATICA: 62 Kg/cm<sup>2</sup> 880 PSI

WALL THICKNESS

PRUEBAS DE TENSION

0.500"

GRADE:

ASTM A53-B

PRESION HIDROSTATICA:

62 Kg/cm<sup>2</sup>

880 PSI

ANALISIS QUIMICO % EN PESO

CHEMICAL ANALYSES PERCENT WEIGHT

NUM/PROBETA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P <sub>0.2</sub> )	ULTIMA TENSION TENSILE STRENGTH (P <sub>0.2</sub> )	% ELONG. %	LEVUT VW/T <sub>0</sub>	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
28-5 TC Ts	ZY1278	48 862	65 692 71 504	45	0.74	0.090	0.78	0.015	0.009	0.010	-	-	0.180	0.010	0.024	-	0.020	0.010	-	0.0020	-
12-2 TC Ts	ZN1368	55 800	69 653 75 504	40	0.80	0.090	0.77	0.013	0.012	0.010	-	-	0.190	0.010	0.018	-	0.020	0.020	-	0.0020	-
17-12 TC Ts	ZN1369	57 296	69 199 73 283	40	0.83	0.090	0.76	0.019	0.010	0.010	-	-	0.200	0.010	0.017	-	0.020	0.020	-	0.0020	-
28-8 TC Ts	ZY3635	48 317	64 335 69 030	44	0.75	0.080	0.78	0.015	0.008	0.010	-	-	0.200	0.010	0.020	-	0.020	0.010	-	0.0020	-
16-7 TC Ts	ZY3636	47 471	64 451 65 224	39	0.74	0.080	0.79	0.011	0.008	0.010	-	-	0.190	0.010	0.017	-	0.020	0.010	-	0.0010	-

CERTIFICAMOS QUE LA TUBERIA AGUI 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 OSORIO PEÑEZ  
GERENTE DE ASEGURAMIENTO DE CALIDAD  
QUALITY ASSURANCE MANAGER

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