



FLM-005-7

PROCARSA, S.A. DE C.V.

CERTIFI DO DE CALIDAD
DE PRUEBAS FISICAS-QUIMICAS

CLIENTE: TUCOTA
CUSTOMER:
PEDIDO CLIENTE / P.O. 8051
PEDIDO INTERNO / I.O.
PARTIDA (S) 25093.20 / 16782.20
NUMERO PTM-50178-2001
FECHA DICIEMBRE 04, 2001
DATE

DIAMETRO: 12 3/4" ESPESOR DE PARED: 0.250" GRADO: ASTM A53-B
WALL THICKNESS: 0.250" GRADE: ASTM A53-B
PRESION HIDROSTATICA: 820 PSI
ANALISIS QUIMICO % EN PESO
HIDROSTATIC TEST: 58 Kg/cm²

PRUEBAS DE TENSION

TENSILE TEST

NUM PROBE/A DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. 2"	LEU/T Y.S.T.S	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
4-4 Tc Ts	114490	50 002	65 138 70 886	39	0.77	0.142	0.89	0.018	0.007	-	-	-	0.141	0.019	0.043	0.0016	0.021	0.031	-	0.0033	
5-18 Tc Ts	207795	54 516	67 055 70 124	42	0.81	0.134	0.90	0.012	0.006	-	-	-	0.181	0.013	0.043	0.0017	0.014	0.026	-	0.0065	
7-13 Tc Ts	207941	55 697	68 739 71 369	39	0.81	0.157	0.94	0.017	0.006	-	-	-	0.156	0.015	0.040	0.0022	0.021	0.026	-	0.0053	
23-8 Tc Ts	207942	53 512	67 157 70 293	40	0.80	0.149	0.94	0.013	0.006	-	-	-	0.162	0.022	0.047	0.0021	0.029	0.032	-	0.0075	
11-12 Tc Ts	209063	52 571	71 173 75 901	40	0.74	0.156	0.90	0.015	0.007	-	-	-	0.217	0.015	0.036	0.0050	0.020	0.035	-	0.0059	
6-13 Tc Ts	214256	50 552	63 669 69 458	38	0.79	0.140	0.90	0.017	0.007	-	-	-	0.182	0.017	0.043	0.0029	0.018	0.026	-	0.0043	
5-5 Tc Ts	214257	51 297	63 176 71 373	38	0.81	0.146	0.80	0.011	0.006	-	-	-	0.176	0.013	0.040	0.0029	0.018	0.028	-	0.0044	

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 OSORIO PEREZ
GERENTE DE ASEGURAMIENTO DE CALIDAD
QUALITY ASSURANCE MANAGER