



FLM-005-7

PROCARSA, S.A. DE C.V.
CERTIFICADO DE CALIDAD
DE PRUEBAS FISICAS-QUIMICAS

QUALITY CERTIFICATE OF TEST PHYSICAL-CHEMICAL

CLIENTE: TUCOTA
CUSTOMER:
PEDIDO CLIENTE / P.O. 9577
PARTIDA (S) VC-1-00

NUMERO PTM-53254-2002
FECHA OCTUBRE 09, 2002
DATE


DIAMETRO: 24" ESPESOR DE PARED 0.250" GRADO: ASTM A53-B
WALL THICKNESS 0.250" GRADE: ASTM A53-B
PRESION HIDROSTATICA: 31 Kg/cm² 440 PSI
CHEMICAL ANALYSIS TEST: ANALISIS QUIMICO % EN PESO

PRUEBAS DE TENSION
TENSILE TEST

	COALTA MAX	LIMITES ELASTICO YIELD STRENGTH (F _{0.2})	ULTIMA TENSION TENSILE STRENGTH (F _U)	% ELONG. %	ELAST. YIELD	C	Min	P	S	CS	V	TI	SI	Cu	Al	Ca	Cr	Ni	Mn	N	Ceq	
130-2 Tc	164225	58 184	69 108	37	0.94	0.070	0.67	0.012	0.009	0.012	-	-	0.225	0.130	0.042	-	0.0100	0.020	-	-	-	
104-6 Tc	164227	60 836	74 310	34	0.86	0.070	0.71	0.016	0.009	0.013	-	-	0.240	0.080	0.043	-	0.0200	0.020	-	-	-	
133-2 Tc	164229	55 184	69 046	37	0.79	0.080	0.67	0.015	0.013	0.012	-	-	0.239	0.130	0.042	-	0.0300	0.030	-	-	-	
109-6 Tc	164230	58 078	79 862	37	0.83	0.070	0.70	0.011	0.012	0.012	-	-	0.224	0.080	0.038	-	0.0100	0.020	-	-	-	
06-11 Tc	289107	55 487	75 868	37	0.76	0.080	0.76	0.014	0.010	0.013	-	-	0.241	0.120	0.039	-	0.0200	0.030	-	-	-	
16-8 Tc	289145	57 791	79 080	35	0.81	0.080	0.65	0.009	0.008	0.012	-	-	0.235	0.070	0.032	-	0.0100	0.020	-	-	-	
101-13 Tc	289151	60 633	78 834	36	0.86	0.070	0.67	0.009	0.007	0.013	-	-	0.258	0.080	0.032	-	0.0100	0.020	-	-	-	
			70 233																			
			75 111																			

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. ROBERTO PEREZ
GERENTE DE ASEGURAMIENTO DE CALIDAD
QUALITY ASSURANCE MANAGER