PROCARSA, S.A. DE C.V.

CERTIFICADO DE CALIDAD DE PRUEBAS FISICAS-QUIMICAS

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE: TUCOTA
CUSTOMER:

NUMERO / NUMBER: PTM-52872-2002

PEDIDO CLIENTE /P.O.
PEDIDO INTERNO / I.O. 9416

FECHA / DATE: AGOSTO 23, 2002

PARTIDA (S)
ITEMS 29180-20 / 29887-10 / 25087-10

DIAMETRO / DIAMETER: 16"

ESPESOR DE PARED / WALL THICKNESS: 0.375"

GRADO / GRADE: ASTM A53-B

PRESION HIDROSTATICA / HIDROSTATIC TEST: 69 Kg/cm² 980 PSI

PRUEBAS DE TENSION / TENSILE TEST						ANALISIS QUIMICO % EN PESO / CHEMICAL ANALYSES PERCENT WEIGHT															
NUM.PROBETA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. 2"	LE/U.T Y.S/T.S	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
43-8 Tc	117278	66 860	74 450	38	0.90	0.100	1.13	0.018	0.007	0.024	0.004	–	0.125	0.010	0.036	0.0010	0.009	0.021	0.003	0.0069	
Ts			81 940																		
164-11 Tc	117400	65 186	74 871	36	0.87	0.109	1.14	0.016	0.008	0.024	0.004	–	0.153	0.010	0.033	0.0042	0.024	0.033	0.014	0.0050	
Ts			77 013																		
7/-5 Tc	117403	59 108	70 930	40	0.83	0.104	1.20	0.016	0.004	0.022	0.004	–	0.143	0.020	0.045	0.0026	0.019	0.021	0.005	0.0055	
Ts			75 946																		
68-10 Tc	117408	61 392	71 838	36	0.85	0.095	1.18	0.014	0.006	0.020	0.003	–	0.140	0.019	0.045	0.0034	0.015	0.023	0.005	0.0080	
Ts			79 138																		
39-15 Tc	117657	62 790	71 759	35	0.88	0.082	1.18	0.015	0.007	0.022	0.004	–	0.135	0.015	0.044	0.0033	0.022	0.022	0.018	0.0058	
Ts			79 936																		
40-8 Tc	117661	64 317	70 391	36	0.91	0.079	1.16	0.014	0.007	0.020	0.003	–	0.129	0.015	0.037	0.0031	0.019	0.024	0.015	0.0064	
Ts			76 149																		
164-5 Tc	213450	49 141	70 390	38	0.70	0.098	1.13	0.015	0.006	0.019	0.004	–	0.165	0.050	0.042	0.0041	0.017	0.027	0.012	0.0080	
Ts			77 117																		
41-7 Tc	216953	66 290	73 636	37	0.90	0.096	1.09	0.016	0.009	0.019	0.005	–	0.138	0.011	0.035	0.0033	0.018	0.023	0.007	0.0071	
Ts			80 057																		
59-12	6	63 123	72 271	36	0.87	0.104	1.13	0.015	0.007	0.021	0.005	–	0.147	0.016	0.043	0.0021	0.013	0.026	0.005	0.0080	
			78 596																		
79-1	217385	67 856	76 315	37	0.89	0.080	1.11	0.016	0.007	0.019	0.003	–	0.163	0.024	0.039	0.0028	0.018	0.028	0.006	0.0080	
Ts			83 796																		
169 Tc	217380	63 789	74 108	36	0.87	0.090	1.15	0.015	0.009	0.019	0.004	–	0.161	0.019	0.045	0.0018	0.023	0.022	0.020	0.0068	
Ts			83 173																		

CERTIFICAMOS QUE LA TUBERIA AQUÍ DESCRITA CUMPLE Y HA SIDO FABRICADA, MUESTREADA, PROBADA E INSPECCIONADA DE ACUERDO CON LOS REQUISITOS APLICABLES DE LA ESPECIFICACION:

ASTM

WE CERTIFY THE PIPE ABOVE MENTIONED ACCOMPLISH AND HAS BEEN MANUFACTURED, SAMPLED, TESTED AND INSPECTED IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF SPECIFICATIONS:

ING. FERNANDO OSORIO PEREZ
GERENTE DE ASEGURAMIENTO DE CALIDAD
QUALITY ASSURANCE MANAGER