FLM-005-7

PROCARSA, S.A. DE C.V.

CERTIFICADO DE CALIDAD DE PRUEBAS FISICAS-QUIMICAS

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE: PLESA ANAHUAC Y CIAS. S.A. DE C.V.
CUSTOMER:

NUMERO / NUMBER: PTM-61883-1-2005

PEDIDO CLIENTE /P.O.
PEDIDO INTERNO / I.O. 13751
PARTIDA (S)
ITEMS JP-5-01 / YG-1-00

FECHA / DATE: JUNIO 28, 2005

DIAMETRO : / DIAMETER : 24"

ESPESOR DE PARED / WALL THICKNESS 0.250"

GRADO : / GRADE : ASTM A53-B

PRESION HIDROSTATICA: / HIDROSTATIC TEST: 31 Kg/cm² 440 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"	I.E.U.T Y.S.T.S	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
64-6 Tc	ZY1275	56 611	68 190	37	0.83	0.080	0.73	0.020	0.008	0.010	--	--	0.190	0.010	0.014	--	0.020	0.010	--	--	
Ts			72 200																		
61-6 Tc	ZY1276	56 168	67 924	38	0.83	0.090	0.75	0.018	0.006	0.010	--	--	0.190	0.020	0.023	--	0.030	0.020	--	--	
Ts			71 476																		
63-5 Tc	ZY1277	60 093	67 605	36	0.89	0.090	0.75	0.015	0.010	0.010	--	--	0.190	0.020	0.024	--	0.030	0.010	--	--	
Ts			73 793																		
56-5 Tc	ZY2622	62 375	70 172	36	0.89	0.090	0.76	0.018	0.011	0.010	--	--	0.190	0.010	0.017	--	0.020	0.010	--	--	
Ts			71 891																		
133-2 Tc	164229	55 184	69 948	37	0.79	0.080	0.67	0.015	0.013	0.012	--	--	0.239	0.130	0.042	--	0.0300	0.030	--	--	
Ts			79 892																		
125-5 Tc	269143	56 703	72 869	37	0.78	0.080	0.72	0.013	0.006	0.014	--	--	0.219	0.070	0.036	--	0.0200	0.020	--	--	
Ts			78 997																		
15-8 Tc	269145	57 791	70 926	35	0.81	0.080	0.65	0.009	0.008	0.012	--	--	0.235	0.070	0.032	--	0.0100	0.020	--	--	
Ts			78 834																		
121-6 Tc	269147	58 084	77 529	38	0.75	0.070	0.70	0.014	0.009	0.013	--	--	0.244	0.060	0.036	--	0.0100	0.020	--	--	
Ts			73 877																		
105-3 Tc	269150	57 284	67 786	38	0.85	0.070	0.73	0.014	0.011	0.012	--	--	0.282	0.120	0.041	--	0.0200	0.020	--	--	
Ts			75 281																		

CERTIFICAMOS QUE LA TUBERIA AQUÍ 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 -02

ING. FERNANDO OSORIO PEREZ