



FLM-005-7

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

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE: TUCOTA
CUSTOMER:
PEDIDO CLIENTE/F.O. 10802
PARTIDA (S)
ITEMS

NUMERO PTM-55540-2003
FECHA DATE AGOSTO 07, 2003

DIAMETRO: 18" ESPESOR DE PARED WALL THICKNESS 0.500"

GRADO: ASTM A53-B

PRESION HIDROSTATICA: 82 Kg/cm²
HIDROSTATIC TEST: 1170 PSI

PRUEBAS DE TENSION
TENSILE TEST

NUM/PROBETA DESCRIPTION	COLADA BEAT	LIMITE ELASTICO YIELD STRENGTH (FLL)	ULTIMA TENSION TENSILE STRENGTH (FLL)	% ELONG. 1"	LEALT V.F.T.S	ANALISIS QUIMICO % EN PESO CHEMICAL ANALYSES PERCENT WEIGHT														
						C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N
13-6 Tc Ts	223394	53 651	70 513 78 300	42	0.76	0.160	1.12	0.019	0.006	0.004	0.004	0.003	0.170	0.019	0.035	0.0018	0.017	0.023	0.011	0.0049
13-6B Tc Ts	227960	53 315	68 837 71 028	37	0.77	0.166	1.08	0.018	0.008	0.002	0.004	0.003	0.212	0.039	0.045	0.0036	0.022	0.029	0.017	0.0035
6-8 Tc Ts	227961	55 397	73 018 80 788	37	0.76	0.160	1.12	0.014	0.008	0.002	0.004	0.003	0.180	0.021	0.040	0.0015	0.025	0.025	0.016	0.0048
5-9 Tc Ts	227962	55 524	70 987 79 282	39	0.78	0.159	1.14	0.016	0.008	0.003	0.004	0.003	0.179	0.020	0.038	0.0026	0.025	0.042	0.017	0.0050
6-9 Tc Ts	227963	57 199	71 600 78 462	41	0.80	0.161	1.10	0.015	0.007	0.002	0.004	0.004	0.197	0.019	0.040	0.0035	0.025	0.031	0.017	0.0052

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 A53-B-99

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