



FLM-005-7

PROCARSA, S.A. DE C.V.

CERTIFICADO DE CALIDAD
DE PRUEBAS FISICAS-QUIMICAS

QUALITY CERTIFICATE OF TEST PHYSICAL-CHEMICAL

CLIENTE: TIGUUA
CUSTOMER:
PEDIDO CLIENTE / P.O. 6906
PEDIDO INTERNO / I.O.
PARTIDA(S) 23091-40

NUMERO PTM-4738-S1-2001
NUMBER
FECHA JUNIO 25, 2001
DATE

TAMANO 6.58" ESPESOR DE PARED 0.280" GRADO: ASTM A53-B PRESION HIDROSTATICA: 125 Kg/cm² 1780 PSI
SIZE: WALL THICKNESS GRADE: ASTM A53-B HYDROSTATIC TEST: CHEMICAL ANALYSIS PERCENT WEIGHT

NUM PROYECTA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. 2"	ELONG. 5/16"	ANALISIS QUIMICO % EN PESO CHEMICAL ANALYSIS PERCENT WEIGHT														
						C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N
2B-14 Lc	212736	56 901	65 752	39	0.87	0.159	0.87	0.012	0.007	--	--	--	0.172	0.018	0.028	0.0033	0.019	0.034	--	0.0057
1B-10 Lc	212737	57 229	66 640	39	0.86	0.144	0.90	0.016	0.007	--	--	--	0.168	0.016	0.040	0.0032	0.020	0.032	--	0.0058
5B-14 Lc	212744	55 598	65 454	37	0.85	0.139	0.89	0.012	0.005	--	--	--	0.180	0.011	0.041	0.0032	0.018	0.030	--	0.0063
12A-10 Lc	212747	57 921	68 733	40	0.84	0.160	0.95	0.017	0.006	--	--	--	0.218	0.024	0.042	0.0025	0.031	0.028	--	0.0080
8B-15 Lc	212752	56 939	68 327	40	0.83	0.138	0.88	0.021	0.007	--	--	--	0.167	0.012	0.033	0.0037	0.024	0.038	--	0.0069
16A-10 Lc	213108	57 055	66 691	34	0.86	0.148	0.89	0.014	0.006	--	--	--	0.163	0.030	0.035	0.0026	0.024	0.042	--	0.0078
21B-15 Lc	213110	55 260	65 307	39	0.85	0.146	0.90	0.017	0.007	--	--	--	0.165	0.019	0.033	0.0029	0.020	0.027	--	0.0066

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