



FLM-005-7

PROCARSA, S.A. DE C.V.

CERTIFICADO DE CALIDAD
DE PRUEBAS FISICAS-QUIMICAS

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE: TUCOTIA

CUSTOMER:

PEDIDO CLIENTE / P.O.

PEDIDO INTERNO / I/O.

PARTIDA (S)

ITEMS

40230-30 / 38274-20

9602

40230-30 / 38274-20

58 Kg/cm²

820 PSI

PRESSION HIDROSTATICA:

HIDROSTATIC TEST:

ANALISIS QUIMICO % EN PESO

CHEMICAL ANALYSIS PERCENT WEIGHT

CLIENTE: TUCOTIA

NUMERO

DIAMETRO: 16" ESPESOR DE PARED 0.312" GRADO: ASTM A53-B

WALL THICKNESS 0.312" GRADE: ASTM A53-B

PRESSION HIDROSTATICA: 58 Kg/cm²

HIDROSTATIC TEST: 820 PSI

ANALISIS QUIMICO % EN PESO

NOM. PROBeta DESCRIPTION	(C) OLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. 2"	LEFIT Y.S.T.A.	CHEMICAL ANALYSIS PERCENT WEIGHT														
						C	Mn	P	S	Cb	V	Ti	Si	Ca	Al	Ca	Cr	Ni	Mo	N
2-3 Tc Tc	126658	56 117	74 074 77 322	35	0.76	0.180	1.13	0.013	0.007	0.001	0.002	0.002	0.202	0.017	0.035	0.0019	0.024	0.026	0.004	0.0090
12-16 Tc Tc	126659	59 731	68 015 72 772	37	0.88	0.180	1.12	0.015	0.008	0.001	0.002	0.002	0.198	0.017	0.035	0.0019	0.017	0.025	0.005	0.0060
4-4 Tc Tc	126660	53 548	72 564 76 838	34	0.74	0.180	1.10	0.018	0.008	0.002	0.005	0.004	0.214	0.032	0.039	0.0021	0.034	0.026	0.016	0.0074
13-6 Tc Tc	222100	57 667	70 941 73 402	35	0.81	0.173	1.11	0.016	0.006	0.003	0.003	0.004	0.225	0.015	0.038	0.0016	0.019	0.025	0.009	0.0027
12-2 Tc Tc	225653	54 863	72 131 74 358	38	0.76	0.170	1.10	0.015	0.008	0.004	0.004	0.004	0.238	0.019	0.045	0.0031	0.049	0.026	0.022	0.0051
10-3 Tc Tc	227096	57 886	75 894 78 973	34	0.76	0.180	1.17	0.020	0.005	0.001	0.003	0.003	0.259	0.011	0.035	0.0034	0.019	0.020	0.003	0.0065

CERTIFICAMOS QUE LA TUBERIA AQUI DESCRITA CUMPLE Y HA SIDO FABRICADA, MUESTREADA, PROBADA E INSPECCIONADA DE ACUERDO COM 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. FERNANDO OSORIO PEREZ
GERENTE DE ASESURAMIENTO DE CALIDAD
QUALITY ASSURANCE MANAGER

[Signature]
04/11/02