

FLM-005-7



PROCARSA, S.A. DE C.V.

**CERTIFICADO DE CALIDAD
DE PRUEBAS FISICAS-QUIMICAS**

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE: FLESA ANAHUAC Y CIAS. S.A. DE C.V.

NUMERO PTM-75679-2009

CUSTOMER:

NUMBER

PEDIDO CLIENTE / P.O.

PEDIDO INTERNO / I.O. 2574

FECHA

DATE SEPTIEMBRE 17, 2009

PARTIDA (S)

ITEMS 77429-20 / 96396-50 / 101575-20 / 103138-60

DIAMETRO : ESPESOR DE PARED GRADO : PRESION HIDROSTATICA:
DIAMETER : 6 5/8" WALL THICKNESS 0.432" GRADE : ASTM A53-B HIDROSTATIC TEST: 193 Kg/cm² 2740 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/UT Y.S.T.S	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
5B-7 Lc	186877	55 195	62 201	38	0.89	0.124	0.80	0.014	0.005	0.001	0.003	0.002	0.153	0.020	0.032	0.0020	0.030	0.030	0.007	0.0045	
16A-9 Lc	185415	55 695	66 454	36	0.83	0.123	0.77	0.015	0.004	0.001	0.003	0.005	0.272	0.020	0.042	0.0015	0.020	0.020	0.005	0.0055	
13A-14 Lc	185422	60 448	67 076	35	0.90	0.113	0.79	0.020	0.005	0.001	0.005	0.005	0.317	0.030	0.033	0.0016	0.020	0.020	0.005	0.0035	
23A-13 Lc	285094	56 273	66 222	36	0.84	0.150	0.76	0.025	0.008	0.001	0.002	0.003	0.308	0.040	0.020	0.0050	0.010	0.030	0.006	0.0059	
7A-7 Lc	288111	63 994	74 580	37	0.85	0.120	0.80	0.017	0.003	0.002	0.004	0.004	0.303	0.020	0.036	0.0015	0.030	0.020	0.011	0.0060	
2A-4 Lc	290360	61 005	68 962	36	0.88	0.118	0.79	0.017	0.005	0.001	0.004	0.004	0.290	0.010	0.043	0.0026	0.020	0.020	0.006	0.0068	
10A-9 Lc	290363	58 559	64 962	42	0.90	0.126	0.79	0.013	0.005	0.002	0.002	0.004	0.281	0.010	0.040	0.0032	0.030	0.020	0.007	0.0039	

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

ASTM -06

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