

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 PTM-0058-2011

NUMBER

PEDIDO CLIENTE / P.O.

PEDIDO INTERNO / I.O. 3651

FECHA

PARTIDA (S)

ITEMS 116652-60/114065-20

DATE JULIO 09, 2011

DIAMETRO:
DIAMETER: 12 3/4"ESPESOR DE PARED
WALL THICKNESS 0.375"GRADO:
GRADE: API 5L X-42 PSL1PRESION HIDROSTATICA:
HYDROSTATIC TEST: 87 Kg/cm² 1240 PSI
**PRUEBAS DE TENSION
TENSILE TEST**
**ANALISIS QUIMICO % EN PESO
CHEMICAL ANALYSES PERCENT WEIGHT**

NUM.PROBETA DESCRIPTION	COLADA HEAT	LIMITES ELASTICO		ULTIMA TENSION		% ELONG. 2"	LE.U.T Y.S.T.S	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
		YIELD STRENGTH (P.S.I.)	TENSILE STRENGTH (P.S.I.)																				
18-18 Tc Ts	251325	57 947	74 096 81 359	42	0.78	0.166	1.10	0.010	0.005	0.001	0.002	0.003	0.200	0.030	0.042	0.0029	0.020	0.030	0.007	0.0040			
6-4 Tc Ts	266118	52 766	66 181 69 479	38	0.80	0.160	0.79	0.014	0.005	0.001	0.003	0.003	0.150	0.010	0.035	0.0020	0.020	0.020	0.004	0.0055			

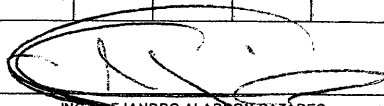
CERTIFICAMOS QUE LA TUBERIA AQUI DESCRITA CUMPLE Y HA SIDO FABRICADA, MUESTREADA, PROBADA E INSPECCIONADA DE ACUERDO CON LOS REQUISITOS APLICABLES DE LA ESPECIFICACION:

WE CERTIFY THE PIPE ABOVE MENTIONED ACCOMPLISH AND HAS BEEN MANUFACTURED, SAMPLED, TESTED AND INSPECTED IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF SPECIFICATIONS:

ANSI / ESPECIFICACION API 5L

44ª EDICION, OCTUBRE 1, 2007

FECHA EFECTIVA : OCTUBRE 1, 2008


 ING. ALEJANDRO ALARCON CAZARES
 SUPERVISOR DE LABORATORIO METALURGICO
 METALLURGICAL LABORATORY SUPERVISOR

FLM-005-7



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CLIENTE: PLESA ANAHUAC Y CIA. S.A. DE C.V.

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PARTIDA (S)

116652-60/114065-20

DATE JULIO 09, 2011

 DIAMETRO: 12 3/4" ESPESOR DE PARED: 0.375" GRADO: API 5L X-42 PSL1 PRESION HIDROSTATICA: 148 Kg/cm² 2110 PSI
 DIAMETER: 12 3/4" WALL THICKNESS: 0.375" GRADE: API 5L X-42 PSL1 HIDROSTATIC TEST: 148 Kg/cm² 2110 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. 1"	LEU.T Y.S.T.S	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
3-8 Tc Ts	209000	50 095	65 032	39	0.77 H	0.112	0.82	0.018	0.007	0.002	0.003	0.004	0.244	0.035	0.037	0.003	0.018	0.017	0.005	0.0058	
			68 047		P	0.110	0.82	0.022	0.005	0.001	0.004	0.003	0.230	0.035	0.030	0.003	0.019	0.016	0.003	0.0058	
1-10 Tc Ts	208992	49 183	65 149	40	0.75 H	0.113	0.79	0.014	0.005	0.001	0.002	0.004	0.217	0.024	0.037	0.005	0.019	0.017	0.005	0.0058	
			66 513		P	0.107	0.80	0.017	0.006	0.001	0.003	0.002	0.211	0.023	0.034	0.003	0.022	0.018	0.004	0.0055	
11-6 Tc Ts	208994	50 577	66 026	39	0.76 H	0.115	0.79	0.014	0.002	0.001	0.001	0.004	0.221	0.030	0.037	0.004	0.027	0.023	0.006	0.0062	
			68 234		P	0.140	0.80	0.015	0.004	0.001	0.003	0.003	0.210	0.028	0.030	0.003	0.028	0.019	0.003	0.0062	
4-13 Tc Ts	211331	44 008	61 779	42	0.71 H	0.111	0.78	0.016	0.006	0.002	0.003	0.003	0.232	0.019	0.036	0.004	0.037	0.025	0.010	0.0059	
			62 083		P	0.120	0.82	0.012	0.003	0.001	0.004	0.002	0.220	0.022	0.039	0.003	0.039	0.023	0.009	0.0059	

 CERTIFICAMOS QUE LA TUBERIA AQUÍ DESCRITA CUMPLE Y HA SIDO
FABRICADA, MUESTREADA, PROBADA E INSPECCIONADA DE ACUERDO
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