

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:
 PEDIDO CLIENTE / P.O. 3649
 PEDIDO INTERNO / I.O.
 PARTIDA (S)
 ITEMS 118065-60

NUMERO PTM-0033-2011
 NUMBER
 FECHA
 DATE JULIO 0, 2011

DIAMETRO :
 DIAMETER : 16"
 ESPESOR DE PARED
 WALL THICKNESS 0.375"
 GRADO :
 GRADE : API 5L X-42 PSL1
 PRESION HIDROSTATICA:
 HIDROSTATIC TEST: 118 Kg/cm² 1680 PSI 10 Segundos una vez

**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
5-6 Tc Ts	111114	49 142	63 580 66 795	45	0.77 H P	0.130 0.130	0.85 0.85	0.013 0.013	0.005 0.005	0.001 0.001	0.004 0.004	0.003 0.003	0.210 0.210	0.030 0.030	0.027 0.027	0.0021 0.0021	0.027 0.027	0.026 0.026	0.005 0.005	0.0050 0.0050	
3-12 Tc Ts	111115	52 985	66 169 70 145	42	0.80 H P	0.116 0.120	0.79 0.79	0.010 0.010	0.005 0.005	0.002 0.002	0.002 0.003	0.003 0.003	0.222 0.210	0.025 0.025	0.030 0.033	0.0042 0.0032	0.015 0.020	0.032 0.031	0.008 0.005	0.0061 0.0054	
1-3 Tc Ts	210963	51 412	64 770 66 646	45	0.79 H P	0.109 0.120	0.81 0.82	0.015 0.012	0.007 0.005	0.001 0.001	0.002 0.003	0.003 0.003	0.228 0.220	0.024 0.025	0.027 0.025	0.0039 0.0035	0.016 0.021	0.018 0.021	0.007 0.004	0.0069 0.0069	


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


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 METALLURGICAL LABORATORY SUPERVISOR