


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

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CUSTOMER:

NUMBER

PEDIDO CLIENTE / P.O.

PEDIDO INTERNO / I.O.

3169

FECHA

DATE

AGOSTO 20, 2010

PARTIDA (S)

ITEMS

100596-30 / 96151-60 / 109340-60 / 102742-40

DIAMETRO :

DIAMETER : 12 3/4"

ESPESOR DE PARED

WALL THICKNESS

0.500"

GRADO :

GRADE :

ASTM A53-B

PRESION HIDROSTATICA:

HIDROSTATIC TEST:

116 Kg/cm²

1,650 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/U.T Y.S/T.S	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
8-13 Tc Ts	187314	68 308	74 733 77 514	32	0.91	0.090	1.17	0.016	0.005	0.022	0.004	0.007	0.258	0.030	0.038	0.002	0.020	0.020	0.006	0.0058	
7-9 Tc Ts	286173	65 126	71 162 74 705	37	0.91	0.073	1.17	0.015	0.004	0.020	0.003	0.007	0.231	0.050	0.033	0.002	0.020	0.030	0.009	0.0055	
6-10 Tc Ts	286176	65 511	71 208 73 194	40	0.92	0.073	1.16	0.018	0.005	0.021	0.003	0.008	0.255	0.020	0.031	0.002	0.020	0.020	0.007	0.0061	
4-12 Tc Ts	298908	56 054	65 017 72 403	44	0.86	0.129	0.78	0.013	0.006	0.002	0.003	0.003	0.294	0.029	0.040	0.003	0.032	0.029	0.006	0.0064	
1-3 Tc Ts	298909	54 336	63 686 70 967	40	0.85	0.127	0.79	0.015	0.007	0.001	0.003	0.003	0.288	0.023	0.039	0.003	0.029	0.023	0.006	0.0045	
3-13 Tc Ts	490115	54 320	62 846 73 375	43	0.86	0.127	0.79	0.011	0.007	0.001	0.002	0.002	0.273	0.010	0.036	0.003	0.030	0.020	0.007	0.0064	
16-2 Tc Ts	490116	50 803	61 950 67 316	44	0.82	0.112	0.78	0.014	0.007	0.001	0.003	0.002	0.281	0.010	0.050	0.004	0.020	0.020	0.007	0.0070	

CERTIFICAMOS QUE LA TUBERIA AQUÍ 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. ALEJANDRO ALARCON CAZARES
SUPERVISOR DE LABORATORIO METALURGICO
METALLURGICAL LABORATORY SUPERVISOR