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

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

DIAMETRO : DIAMETER : 12 3/4"	ESPEJOR DE PARED WALL THICKNESS 0.250"	GRADO : GRADE : ASTM A53-B	PRESION HIDROSTATICA: HIDROSTATIC TEST: 58 Kg/cm <sup>2</sup> 820 PSI
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**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
23-4 Tc Ts	202106	49 145	63 200 68 863	39	0.77	0.127	0.78	0.017	0.006	0.002	0.003	0.003	0.315	0.025	0.047	0.003	0.017	0.019	0.004	0.0057	
11-21 Tc Ts	202107	48 622	63 912 69 700	42	0.76	0.147	0.79	0.020	0.004	0.002	0.003	0.004	0.324	0.020	0.043	0.002	0.018	0.022	0.004	0.0056	
24-16 Tc Ts	202108	49 872	63 895 69 615	42	0.78	0.135	0.81	0.019	0.008	0.002	0.003	0.004	0.320	0.014	0.043	0.002	0.017	0.020	0.003	0.0051	
18-12 Tc Ts	202109	46 708	63 685 66 107	42	0.73	0.137	0.80	0.019	0.003	0.002	0.005	0.004	0.312	0.017	0.040	0.002	0.015	0.022	0.003	0.0044	
25-24 Tc Ts	202110	52 077	66 201 70 233	40	0.78	0.141	0.79	0.010	0.004	0.002	0.002	0.004	0.329	0.020	0.045	0.002	0.014	0.019	0.003	0.0055	
8-10 Tc Ts	202111	51 546	65 807 68 683	43	0.78	0.128	0.79	0.016	0.004	0.002	0.005	0.003	0.324	0.013	0.038	0.003	0.013	0.016	0.004	0.0059	
16-16 Tc Ts	298906	47 073	63 995 69 016	40	0.73	0.144	0.83	0.011	0.006	0.002	0.004	0.003	0.250	0.028	0.041	0.003	0.028	0.026	0.005	0.0060	

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