



Ave. Guadalupe
No. 3729 Int.
Col. Del Norte
Monterrey, N.L. Mexico
CP 644500
TEL: 30455555
FAX: 30455590

CERTIFICADO DE TUBERIA

PIPE CERTIFICATE

No. CERTIFICADO (certificate No.):

070057

O.T. (order no.) 23017	DIAMETRO (outside diam.) 20.000"	ESPESOR (thickness) 0.250"	GRADO (grade) A53 B	ESPECIFICACION (specification) A S T M	PROCESO (process) DSAW	PEDIDO (contract) 2318	CLIENTE (customer): PLESA ANAHUAC Y CIA. S.A. DE C.V. DIRECCION (address): TULLITLÁN, EDO DE MEXICO O. PREPARACION (preparation order) B-339-2006	AV. VALLE DE LAS ALAMEDAS # 66 O COL. SAN FCO. CHILPAN	PROVEEDOR (supplier) AHMSA	FECHA (date) 17/01/2007
------------------------------	--	----------------------------------	---------------------------	--	------------------------------	------------------------------	---	--	----------------------------------	-------------------------------

TUBO (pipe)	COLD (heat)	T L P C	UNIDADES (units)	ORIENTACION (orientation)	TAMBO (size)	BEND	HARDNESS	PRUEBA DE IMPACTO (impact test)			DWTT		GRAN SIZE	T L P C	Mn	P	S	SI	Al	Cu	Cr	Ni	Mo	Ti	Nb	B	V	N	Als	Ca	PCM	CE		
								ENERGY (ft-lb)	AVG	1	2	3																					AVG	1
34		H 7	60900	77700	35	0.84								H 0.16	0.45	0.010	0.007	0.110	0.033	0.010	0.030	0.030	0.007	-	-	-	-	-	-	-	-	-	0.24	
		H 7	60900	72700										P 0.16	0.42	0.005	0.004	0.118	0.036	0.005	0.016	0.012	0.001	0.001	0.001	0.002	0.002	-	-	-	-	-	0.002	0.19
		H 7	60900	75300										P 0.16	0.41	0.005	0.004	0.117	0.038	0.002	0.016	0.013	0.001	0.001	0.002	0.0001	0.003	-	-	-	-	-	0.003	0.23
		H 7	56700	71500	37	0.79								H 0.15	0.46	0.016	0.008	0.120	0.035	0.020	0.030	0.030	0.007	-	-	-	-	-	-	-	-	-	0.24	
		H 7	56700	71500										P 0.19	0.43	0.008	0.008	0.122	0.043	0.005	0.019	0.014	0.001	0.001	0.002	0.0002	0.004	-	-	-	-	-	0.002	0.21
9		H 7	450758											P 0.16	0.43	0.006	0.006	0.124	0.045	0.005	0.019	0.014	0.001	0.002	0.003	0.0001	0.004	-	-	-	-	-	0.002	0.19
		H 7	450758											P 0.16	0.43	0.006	0.006	0.124	0.045	0.005	0.019	0.014	0.001	0.002	0.003	0.0001	0.004	-	-	-	-	-	0.002	0.19

PRUEBA HIDROSTATICA	PRECISION	TIEMPO	SEC	ORIENTACION (orientation)	6 SOLDADURA (weld)	CERTIFICAMOS QUE EL MATERIAL DESCRITO HA SIDO HECHO DE ACUERDO CON LA ESPECIFICACION MENCIONADA Y QUE...
(hydrostatic test)	(precision)	530 Psi	(time)	10	1 TRANSVERSAL (transverse)	WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN...
ULTRASONICO (UT)	STANDARD DE REFERENCIA	N/A		2 LONGITUDINAL (longitudinal)	7 METAL BASE (base metal)	RESULT ARE AS THEY APPEAR AND RECORDS OF THE COMPANY...
(ultrasonic)	REFERENCIA STANDARD	N/A		3 RECTANGULAR (rectangular)	8 ZONA AFECTADA (a.a.)	
RAVOS X (RT)	PERMETROMETRO (penetrometer)	N° 10 A S T M		4 CILINDRICA (cylindrical)	9 LINEA DE FUSION (fusion line)	
(x-ray)	TEMPERATURA (temperature)	N/A		5 CILINDRICA (cylindrical)	H: SOLDADURA (weld)	
PRUEBA DE SOLDADURA				6 RECTANGULAR (rectangular)	P: PRODUCTO (weld)	
(weld test)				7 RECTANGULAR (rectangular)	R: REMUESTRO (weld)	
REFERENCIA STANDARD				8 CILINDRICA (cylindrical)		
F U T NOTCH N° 5 U T NOTCH V-10L RT HOLE 1/8" N RT HOLE 2-2T RT HOLE 2-4T				9 CILINDRICA (cylindrical)		

Control de Calidad (Quality Control)

CONTROL DE CALIDAD

TUBACERO, S.A. DE C.V.

04

F-TUWE-013