Tubacero
Ave. Guerrero
No. 3725 nte.
Col. Del Norte
Monterrey N.L. México
CP.64500
TEL:3055555
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CERTIFICADO DE TUBERIA

PIPE CERTIFICATE

No.CERTIFICADO(certificate No.): 080379

CLIENTE(customer): PLESA ANÁHUAC Y CÍAS., S.A. DE C.V.

DIRECCION(address): AV. VALLE DE LAS ALAMEDAS # 56- O COL. SAN FCO CHILPAN TULTITLÁN, EDO. DE MEXICO. C.P. 54940.

O.T. (order no.)	DIAMETRO (outside diam.)	ESPESOR (thickness)	GRADO (grade)	ESPECIFICACION (specification)	PROCESO (process)	PEDIDO (contract)	O. PREPARACION (preparation order)	PROVEEDOR (supplier)	FECHA (date)
33457	12.750"	0.250"	X42/5LB/A53B	API 5L 43 ED./A.S.T.M.	ERW	4551	TB-083-2008	AHMSA	19/05/2008

TUBO (pipe) O SERIE (SERIAL)	COLADA (heat)	TYPE	LOC	PRUEBA DE TENSION(tensile test) UNIDADES: PSi (Y.S.)	(T.S.)	ORIENTACION: 1 % EL.	TAMAÑO: 3 Y.S/T.S.	SEMO	THICKNESS	PRUEBA DE IMPACTO (impact test) °C ORIENTACION °F (orientation) ENERGY (lbs/ft) 1 2 3 AVG	TAMAÑO (size) SHEAR AREA 1 2 3 AVG	DWTT SHEAR AREA 1 2 AVG	GRAIN SIZE	TYPE	LOC	%ANALISIS QUIMICO / chemical analysis (%) C	Mn	P	S	Si	Al	Cu	Cr	Ni	Mo	Ti	Nb	B	V	N	Als	Ca	PCM	CE
			6		71900									H	7	0.16	0.58	0.018	0.008	0.101	0.020	0.010	0.020	0.020	0.004	-	-	-	-	-	-	-	-	0.27
12	175068	H	7	50700	67600	40	0.75							P	7	0.18	0.58	0.021	0.008	0.118	0.030	0.005	0.014	0.022	0.001	0.002	0.002	0.0002	0.002	-	-	0.002	0.22	0.28
														P	7	0.18	0.58	0.024	0.007	0.116	0.031	0.008	0.014	0.021	0.001	0.002	0.002	0.0003	0.002	-	-	0.003	0.22	0.28
			6		74000									H	7	0.15	0.58	0.019	0.008	0.100	0.034	0.020	0.020	0.020	0.005	-	-	-	-	-	-	-	-	0.25
48	175066	H	7	49600	65800	36	0.75							P	7	0.20	0.58	0.019	0.010	0.121	0.048	0.013	0.026	0.024	0.001	0.002	0.002	0.0004	0.002	-	-	0.002	0.23	0.30
														P	7	0.20	0.57	0.022	0.011	0.118	0.043	0.013	0.025	0.023	0.001	0.002	0.002	0.0003	0.002	-	-	0.002	0.23	0.30
			6		74000									H	7	0.15	0.58	0.022	0.008	0.096	0.024	0.030	0.020	0.020	0.005	-	-	-	-	-	-	-	-	0.26
233	175069	H	7	47800	63100	40	0.75							P	7	0.19	0.58	0.024	0.012	0.120	0.041	0.022	0.017	0.025	0.001	0.002	0.002	0.0004	0.003	-	-	0.003	0.23	0.29
														P	7	0.20	0.57	0.025	0.014	0.115	0.034	0.022	0.017	0.024	0.001	0.002	0.002	0.0004	0.003	-	-	0.003	0.23	0.30

PRUEBA HIDROSTATICA: (hidrostatic test)	PRESION: (pressure) 1400 Psi	TIEMPO: (time) 10 sec
ULTRASONIDO(U.T.): (ultrasonic)	STANDARD DE REFERENCIA: J REFERENCE STANDARD	
RAYOS-X (RT) (x-ray)	PENETROMETRO (penetrometer): N/A	
NORMALIZADO DE SOLDADURA (heat treatment weld)	TEMPERATURA (temperature): 1600° F MIN	
REFERENCE STANDARD	F: U.T. DRILLED HOLE 1/16", G: U.T. DRILLED HOLE 1/8", I: U.T. NOTCH N-5, J: U.T. NOTCH N-10 L: RT HOLE 1/16", N: RT HOLE 2-2T O: RT HOLE 2-4T	

ORIENTACION(orientation)
1. TRANSVERSAL (transverse)
2. LONGITUDINAL (longitudinal)

TAMAÑO (size)
3.RECTANGULAR(rectangular)
4.CILINDRICA(round bar) 0.500"
5.CILINDRICA(round bar) 0.350"

LOCALIZACION (location)
6. SOLDADURA (weld)
7. METAL BASE (base metal)
8. ZONA AFECTADA (h.a.z.)
9. LINEA DE FUSION (fusion line)

TIPO DE PRUEBA (type)
H: COLADA (heat)
P: PRODUCTO (product)
R: REMUESTREO (recheck)

CERTIFICAMOS QUE EL MATERIAL DESCRITO HA SIDO HECHO DE ACUERDO CON LA ESPECIFICACION MENCIONADA, Y QUE LOS RESULTADOS SON COMO APARECEN EN LOS REGISTROS DE LA COMPAÑIA.
(WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN HAS BEEN MADE IN ACCORDANCE WITH THE SPECIFICATION MENTIONED AND THAT THESE TEST RESULTS ARE AS THEY APPEAR IN RECORDS OF THE COMPANY.)

TUBACERO, S.A. DE C.V.

CONTROL DE CALIDAD 04

Control de Calidad (Quality Control)

REV. 2 May-07

F-TUME-013

20 May 08 10:17a COMERCIAL 018183055530 P.2