TUBACERO080281

Tubacero
Ave. Guerrero
No. 3728 ote.
Col. Del Norte
Monterrey N.L. México
C.P.64500
TEL:[illegible]
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CERTIFICADO DE TUBERIA

PIPE CERTIFICATE

No.CERTIFICADO(certificate No.): 080281

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

DIRECCION(address): AV. VALLE DE LAS ALAMEDAS # 66- 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	4378	TB-081-2008	AHMSA	05/04/2008

TUBO (pipe) O. SERIE (SERIAL)	COLADA (heat)	TYPE	LOC	PRUEBA DE TENSION (tensile test) UNIDADES: (units) PSI (Y.S.)	ORIENTACION: (orientation) 1 (T.S.)	TAMAÑO: (size) 3 % EL.	Y.S./T.S.	GRAD	HARDNESS	PRUEBA DE IMPACTO (impact test) °C ORIENTACION ENERGY (lbs/ft) 1	2	3	AVG	TAMAÑO: (size) SHEAR AREA 1	2	3	AVG	DWTT SHEAR AREA 1	2	AVG
			6		71900															
12	175068	H	7	50700	67600	40	0.75													
			6		74000															
48	175066	H	7	49600	65800	36	0.75													
			6		68400															
201	274958	H	7	48600	62900	36	0.77													
			6		74000															
233	175069	H	7	47800	63100	40	0.75													

(%)ANALISIS QUIMICO / chemical analysis (%)

GRADO SIZE	TYPE	LOC	C	Mn	P	S	Si	Al	Cu	Cr	Ni	Mo	Ti	Nb	B	V	N	Als	Ca	PCM	CE
	H	7	0.16	0.58	0.018	0.006	0.101	0.020	0.010	0.020	0.020	0.004	-	-	-	-	-	-	-	-	0.27
	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
	H	7	0.15	0.58	0.019	0.008	0.100	0.034	0.020	0.020	0.020	0.005	-	-	-	-	-	-	-	-	0.25
	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
	H	7	0.15	0.59	0.020	0.007	0.065	0.024	0.020	0.020	0.020	0.003	-	-	-	-	-	-	-	-	0.25
	P	7	0.21	0.59	0.025	0.008	0.087	0.049	0.014	0.009	0.022	0.001	0.002	0.002	0.0002	0.003	-	-	0.001	0.25	0.31
	P	7	0.19	0.58	0.018	0.012	0.093	0.042	0.018	0.009	0.023	0.001	0.002	0.002	0.0003	0.003	-	-	0.003	0.22	0.29
	H	7	0.15	0.58	0.022	0.008	0.098	0.024	0.030	0.020	0.020	0.005	-	-	-	-	-	-	-	-	0.25
	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 TAL COMO APARECEN EN NUESTROS REGISTROS DE LA COMPAÑIA

(WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN HAS BEEN MADE IN ACCORDANCE WITH THE SPECIFICATION MENTIONED AND THAT THESE TEST RESULT ARE AS APPEAR IN RECORDS OF THE COMPANY)

CONTROL DE CALIDAD
TUBACERO, S.A. DE C.V.
04

Control de Calidad (Quality Control)

REV. 2 May-07

F-TUME-013

07 Abr 08 04:51p COMERCIAL 018183055530 p.1