Tubacero
Ave. Guerrero
No. 3729 ote.
Col. Del Norte
Monterrey N.L. México
CP.64580
TEL:3658555
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CERTIFICADO DE TUBERIA

PIPE CERTIFICATE

No.CERTIFICADO(certificate No.): 080375

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

DIRECCION(address): AV. VALLE DE LAS ALAMEDAS # 86- 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)
33430	12.750"	0.250"	X42/5LB/A53B	API 5L 43 ED/A.S.T.M.	ERW	4551	TB-083-2008	APM	17/05/2008

TUBO (pipe) O SERIE (SERIAL)	COLADA (heat)	TYPE	LOC	PRUEBA DE TENSION(tensile test) UNIDADES: (units)	ORIENTACION (orientation)	TAMAÑO (size)		DENS	HARDNESS	PRUEBA DE IMPACTO (impact test) °C ORIENTACION TAMAÑO ENERGY (lbs/ft) 1 2 3 AVG	SHEAR AREA 1 2 3 AVG	DWTT SHEAR AREA 1 2 AVG	JOINT SIZE	TYPE	LOC	(%)ANALISIS QUIMICO / chemical analysis (%) C	Mn	P	S	Si	Al	Cu	Cr	Ni	Mo	Ti	Nb	B	V	N	Als	Ce	PCM	CE
			6		76000										H	7	0.21	0.81	0.010	0.011	0.205	0.052	-	-	-	-	-	-	-	-	-	-	-	-
302	ZZ0025918	H	7	56100	71400	37	0.79								P	7	0.18	0.80	0.009	0.010	0.200	0.050	0.012	0.020	0.020	0.002	0.002	0.002	0.0001	0.001	-	-	0.001	0.23	0.32
															P	7	0.18	0.78	0.008	0.009	0.200	0.051	0.010	0.018	0.018	0.001	0.002	0.001	0.0002	0.001	-	-	0.001	0.23	0.32
			6		68800										H	7	0.19	0.72	0.012	0.011	0.201	0.051	-	-	-	-	-	-	-	-	-	-	-	-
81	ZZ0025919	H	7	55200	70000	35	0.79								P	7	0.15	0.70	0.010	0.010	0.197	0.050	0.010	0.010	0.009	0.001	0.002	0.002	0.0002	0.001	-	-	0.001	0.19	0.27
															P	7	0.14	0.68	0.011	0.012	0.195	0.048	0.010	0.010	0.009	0.001	0.003	0.002	0.0004	0.001	-	-	0.001	0.18	0.26
			6		64300										H	7	0.19	0.67	0.013	0.022	0.163	0.046	-	-	-	-	-	-	-	-	-	-	-	-
76	ZZ0025916	H	7	51300	68800	35	0.75								P	7	0.18	0.66	0.012	0.020	0.160	0.042	0.010	0.014	0.015	0.002	0.002	0.001	0.0002	0.002	-	-	0.001	0.22	0.30
															P	7	0.17	0.64	0.010	0.021	0.158	0.042	0.010	0.013	0.015	0.002	0.002	0.001	0.0001	0.002	-	-	0.001	0.21	0.28

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 RESULT 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 10:19a COMERCIAL 018183055530 P.6