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.): 070487

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

DIRECCION(address): AV.VALLE DE LAS ALAMEDAS # 68 O COL. SAN FCO, CHILPAN TULTITLAN, 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)
33449	14.000"	0.312	X42/5LB/A53B	API 5L 43 ED/A.S.T.M.	ERW	3055	B-129-2007	AHMSA	06/06/2007

TUBO (pipe) O SERIE (SERIAL)	COLADA (heat)	TYPE	LOC	PRUEBA DE TENSION(tensile test) UNIDADES (units)	ORIENTACION (orientation)	TAMAÑO (size)		GRADO	HARDNESS	PRUEBA DE IMPACTO (impact test) °C ORIENTACION TAMAÑO (size) ENERGY (lbsft) 1 2 3 AVG	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			78200									H	7	0.16	0.60	0.009	0.006	0.108	0.032	0.030	0.020	0.030	0.005	-	-	-	-	-	-	-	0.27
87	173675	H	7	49900		67600	40	0.74							P	7	0.14	0.56	0.010	0.005	0.111	0.030	0.032	0.018	0.030	0.002	0.007	0.003	0.0002	0.004	-	-	0.004	0.18	0.24
															P	7	0.16	0.63	0.010	0.005	0.110	0.029	0.030	0.022	0.033	0.001	0.008	0.003	0.0003	0.006	-	-	0.004	0.20	0.27
			6			74600									H	7	0.16	0.56	0.013	0.005	0.104	0.051	0.010	0.020	0.020	0.002	-	-	-	-	-	-	-	-	0.26
62	273398	H	7	50700		67500	41	0.75							P	7	0.15	0.49	0.010	0.006	0.110	0.050	0.010	0.018	0.018	0.002	0.002	0.003	0.0001	0.004	-	-	0.002	0.18	0.24
															P	7	0.16	0.42	0.013	0.005	0.100	0.048	0.010	0.020	0.022	0.002	0.001	0.001	0.0002	0.002	-	-	0.002	0.19	0.24
			6			79900									H	7	0.16	0.59	0.014	0.007	0.116	0.034	0.020	0.030	0.020	0.003	-	-	-	-	-	-	-		0.27
48	173676	H	7	49100		65500	42	0.75							P	7	0.15	0.52	0.010	0.008	0.110	0.034	0.020	0.020	0.020	0.001	0.009	0.003	0.0002	0.004	-	-	0.004	0.18	0.24
															P	7	0.18	0.60	0.010	0.008	0.108	0.030	0.010	0.030	0.017	0.001	0.003	0.003	0.0004	0.007	-	-	0.002	0.22	0.29
			6			75800									H	7	0.16	0.58	0.013	0.009	0.128	0.045	0.030	0.030	0.030	0.003	-	-	-	-	-	-	-	-	0.27
188	173677	H	7	48600		65700	43	0.74							P	7	0.16	0.59	0.014	0.009	0.123	0.049	0.025	0.033	0.030	0.002	0.002	0.001	0.0008	0.002	-	-	0.002	0.21	0.28
															P	7	0.15	0.55	0.010	0.010	0.129	0.044	0.030	0.031	0.030	0.001	0.002	0.001	0.0010	0.002	-	-	0.001	0.19	0.25
			6			75200									H	7	0.15	0.58	0.013	0.005	0.139	0.036	0.020	0.030	0.030	0.001	-	-	-	-	-	-	-	-	0.26
211	273503	H	7	49800		68100	42	0.73							P	7	0.17	0.57	0.010	0.010	0.135	0.033	0.017	0.030	0.030	0.001	0.003	0.001	0.0005	0.001	-	-	0.002	0.21	0.27
															P	7	0.14	0.58	0.011	0.008	0.133	0.037	0.019	0.037	0.030	0.001	0.002	0.001	0.0009	0.002	-	-	0.001	0.18	0.25

PRUEBA HIDROSTATICA (hidrostatic test): PRESION (pressure): 1590 Ps TIEMPO (time): 10 sec

ULTRASONIDO(U.T.) (ultrasonic): STANDARD DE REFERENCIA: J

RAYOS-X (RT) (x-ray): REFERENCE STANDARD

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 V-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 APPEAR IN RECORDS OF THE COMPANY)

Control de Calidad (Quality Control)

TUBACERO, S.A. DE C.V.

Fecha: 2 May-07

F-TUME-013

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