ORIGINAL

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CERTIFICADO DE TUBERIA

PIPE CERTIFICATE

No.CERTFICADO(certificate No.): 070302

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)
33412	14.000"	0.225"	X42/5LB/A53B	API 5L43ED/A.S.T.M.	ERW	2673	8-063-2007	APM	27/03/2007

COLADA (heat)	TYPE	LOC	PRUEBA DE TENSION(tensile test) UNIDADES (units)	ORIENTACION (orientation)	TAMAÑO (size)		BEND	HARDNESS HV	PRUEBA DE IMPACTO (impact test) °C	ORIENTACION (orientation)	TAMAÑO (size) 1:1						DWTT °C:			GRAIN SIZE
			PSI (Y.S.)	1 (T.S.)	3 % EL	Y.S/T.S.			°F		ENERGY (lbs/ft)				SHEAR AREA				SHEAR AREA	
		6		69000							1	2	3	AVG	1	2	3	AVG	1	2	AVG	
0620783	H	7	49100	67200	40	0.73														
		6		69000																
0621000	H	7	49200	67800	40	0.73														
		6		70700																
0630800	H	7	55400	72800	40	0.76														
		6		72500																
0620780	H	7	50300	69400	40	0.73														
		6		71500																
0630801	H	7	49000	64600	40	0.76														
		6		79000																
0640978	H	7	55800	74700	35	0.75														

(%)ANALISIS QUIMICO (chemical analysis (%))

TYPE	LOC	C	Mn	P	S	Si	Al	Cu	Cr	Ni	Mo	Ti	Nb	B	V	N	Als	Ca	PCM	CE
H	7	0.17	0.74	0.013	0.006	0.16	0.04	-	-	-	-	-	-	-	-	-	-	-	-	-
P	7	0.14	0.69	0.011	0.004	0.17	0.05	0.018	0.005	0.010	0.002	0.005	0.002	0.0001	0.001	-	-	0.008	0.19	0.14
P	7	0.13	0.71	0.010	0.002	0.18	0.05	0.016	0.005	0.011	0.002	0.004	0.002	0.0001	0.001	-	-	0.006	0.18	0.14
H	7	0.18	0.73	0.010	0.004	0.19	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
P	7	0.19	0.69	0.009	0.002	0.18	0.03	0.012	0.006	0.015	0.007	0.007	0.001	0.0001	0.001	-	-	0.005	0.24	0.16
P	7	0.18	0.68	0.009	0.003	0.17	0.02	0.013	0.006	0.015	0.007	0.007	0.001	0.0002	0.001	-	-	0.005	0.23	0.15
H	7	0.19	0.75	0.009	0.002	0.16	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
P	7	0.14	0.64	0.008	0.001	0.18	0.05	0.016	0.002	0.017	0.001	0.002	0.001	0.0002	0.001	-	-	0.006	0.19	0.13
P	7	0.11	0.63	0.006	0.002	0.16	0.04	0.020	0.002	0.017	0.001	0.002	0.001	0.0001	0.001	-	-	0.004	0.15	0.13
H	7	0.20	0.76	0.008	0.003	0.20	0.04	-	-	-	-	-	-	-	-	-	-	-	-	-
P	7	0.25	0.73	0.005	0.002	0.20	0.04	0.010	0.003	0.010	0.001	0.003	0.001	0.0002	0.001	-	-	0.007	0.30	0.15
P	7	0.25	0.74	0.006	0.002	0.18	0.03	0.010	0.003	0.012	0.002	0.002	0.001	0.0002	0.001	-	-	0.008	0.30	0.17
H	7	0.17	0.72	0.009	0.002	0.17	0.04	-	-	-	-	-	-	-	-	-	-	-	-	-
P	7	0.15	0.67	0.021	0.021	0.18	0.05	0.020	0.003	0.017	0.001	0.002	0.001	0.0002	0.001	-	-	0.017	0.19	0.26
P	7	0.13	0.67	0.020	0.020	0.18	0.05	0.018	0.003	0.017	0.001	0.002	0.002	0.0001	0.001	-	-	0.017	0.17	0.25
H	7	0.19	0.75	0.009	0.003	0.18	0.04	-	-	-	-	-	-	-	-	-	-	-	-	-
P	7	0.24	0.71	0.008	0.008	0.18	0.05	0.005	0.002	0.015	0.002	0.002	0.002	0.0002	0.002	-	-	0.007	0.29	0.36
P	7	0.25	0.72	0.006	0.005	0.18	0.05	0.007	0.003	0.015	0.002	0.013	0.003	0.0002	0.002	-	-	0.006	0.29	0.37

A HIDROSTATICA: PRESION: (presión test) (pressure) 1150 Psi TIEMPO: (time) 10 sec

SONIDO(U.T.): STANDARD DE REFERENCIA: J

REFERENCE STANDARD

(RT): PENETROMETRO (penetrometer): N/A

LIZADO DE SOLDADURA: TEMPERATURA (temperature): 1800° F. MIN.

(filment weld)

NCE STANDARD F: U.T. DRILLED HOLE 1/16", G. U.T. DRILLED HOLE 1/8",
OTCH N-5, J: U.T. NOTCH W-10 L: RT HOLE 1/16", N: RT HOLE 2-2T O: RT HOLE 2-4T

Sep-99

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

TAMAÑO (size)
3.RECTANGULAR(rectangular) 1½"
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)

Control de Calidad (Quality Control)

F-TUME-013

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TUBACERO
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