



Ave. Guerrero  
 No. 3729 Int.  
 Col. San Mateo  
 Monterrey N.L. Mexico  
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# CERTIFICADO DE TUBERIA

## PIPE CERTIFICATE

O.T. (order no.) 22921	DIAMETRO (outside diam.) 20.000"	ESPESOR (thickness) 0.250"	GRADO (grade) B/A 53 B	ESPECIFICACION (specification) API 5L ED. 42 / ASTM	PROCESO (process) ERW	PEDIDO (contract) 100000317	O. PREPARACION (preparation order) B-088-2004	PROVEEDOR (supplier) AHMSA	FECHA (date) 14/07/04
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No CERTIFICADO (certificate No.):  
 CLIENTE (customer):  
 PESA ANAHUAC Y CIA S. A. DE C.V.  
 DIRECCION (address): AV. VALLE DE LAS ALAMEDAS # 66 O  
 COL. SAN. FCO. CHILPAN TULTILAN, EDO DE MEXICO C.P. 54940.

040385

TUBO (pipe)	COLADA (heat)	T L Y O P C E C	UNIDADES (units)	ORIENTACION (orientation)	TAMANO (size)	GEN (Y.S.)	HARDNESS (H)	PRUEBA DE IMPACTO (Impact test)			DWT			(%ANALISIS QUIMICO / chemical analysis (%))																				
								TAMANO (size)	ENERGY (ft-lb)	SHEAR AREA	TAMANO (size)	0 °C 32 °F	SHEAR AREA	TAMANO (size)	0 °C 32 °F	SHEAR AREA	T L Y O P C E C	C	Mn	P	S	SI	Al	Cu	Cr	Ni	Mo	Ti	Nb	B	V	N	Als	Ca
25	230592	H 7	6	53128	66958	36	0.79	1	1.1	0	0.16	0.45	0.013	0.010	0.010	0.040	0.021	0.011	0.024	0.004	0.001	0.001	-	0.002	-	-	-	-	-	-	-	-	-	
62	230596	H 7	6	54235	73150	36	0.80	2	1.1	0	0.15	0.46	0.013	0.013	0.012	0.050	0.021	0.017	0.031	0.002	0.001	0.001	-	0.002	-	-	-	-	-	-	-	-	-	-
84	430071	H 7	6	52564	72851	37	0.78	3	1.1	0	0.15	0.46	0.019	0.012	0.009	0.040	0.067	0.026	0.035	0.007	0.001	0.001	-	0.002	-	-	-	-	-	-	-	-	-	-

PRUEBA HIDROSTATICA: (hydrostatic test)	PRESSION: (pressure)	TEMPO: (time)	ORIENTACION (orientation)	6. SOLDADURA (weld)
ULTRASONIDO (UT): (ultrasonic)	STANDARD DE REFERENCIA REFERENCE STANDARD	G	1. TRANSVERSAL (transverse)	7. METAL BASE (base metal)
RAVOS X (RT): (x-ray)	PENETROMETRO (penetrometer)	N/A	2. LONGITUDINAL (longitudinal)	8. ZONA AFECTADA (h.a.z.)
NORMALIZADO DE SOLDADURA (heat treatment weld)	TEMPERATURA (temperature):	1600° F.	3. RECTANGULAR (rectangular)	9. LINEA DE FUSION (fusion line)
REFERENCE STANDARD: F U T DRILLED HOLE 1/16" G U T DRILLED HOLE 1/8" L U T NOTCH N.S. J U T NOTCH V-10 L R T HOLE 1/16" N R T HOLE 2/21 O R T HOLE 2/41			4. CILINDRICAL (round bar)	TIPO DE PRUEBA (type)
			5. CILINDRICAL (round bar)	H. COLADA (heat)
			LOCALIZACION (location)	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 COMPANIA.

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)

