



Tubos de Acero de Mexico, S.A.
 Carretera Mexico Veracruz Km 433.7 SN
 Delimito Valenzuela Tuxtla, Veracruz, Veracruz
 C.P. 91697 MEXICO
 (52) 229 989 1100 tel
 (52) 229 989 1600 fax

CERTIFICADO DE PRUEBAS EN FABRICA

Number: 08018034
 Date: Mar 31, 2008

COPIA

Customer / Cliente: PLESA ANAHUAC Y CIAS, S.A. DE C.V.

Customer's Order / Orden Cliente - Item N°

Customer's Reference/Referencia de Cliente

Manufacturer's Works Order N° / Confirmación de Venta

Manufacture Process / Proceso de Fabricación
 SEAMLESS HOT ROLLED

Product Type / Tipo de producto
 LINE PIPE SEAMLESS

Surface / Superficie
 VARNISHED
 BARNIZADO

LAMINADO EN CALIENTE SIN COSTURA

CONDUCCION

Steel Grade / Grado de acero
 B7X42 PSL1

Fonds / Extremos
 BISELADO NORMAL

Standard or Specification / Normas o especificaciones
 1. 2000/99/1995-A95/99B

API 5L/ASTM A106/ASME SA106/ASTM A53 JULIO

Quantity / Cantidad
 20 Pcs/pz

Nominal Weight / Peso Nominal
 28.58 LB/FT
 42.65 KGM

Dimensions / Dimensiones
 8 5/8 X 0.322 INCH
 219.10 X 8.20 MM

Schedule / Cédula
 040

Length / Longitud
 19.70 / 21.30 FT
 6.00 / 6.50 MTS

TENSILE TEST / ENSAYOS DE TENSION

Heat N° Cobada N°	Sample N° Muestra N°	Specimen condition Condición de la probeta			Specimen dimensions Dimensiones de la probeta		Test temp Temp de ensayo	Y _S		UT _S		Y _S /	Elongation Alargamiento
		LS	Sc	On	Size Tamaño	Area Sección		Unit / Unidad KG/MM2	Reqd/Requerido Min / Max	Unit / Unidad KG/MM2	Reqd/Requerido Min / Max		
38263	15380	B	AR	Sc	L	38.18 x 8.45	324.42	RT	31.0	49.4	0.63	40	
38265	15381	B	AR	Sc	L	37.95 x 8.19	312.52	RT	32.0	49.4	0.63	39	

COPIA CONTROLADA
Plesa Anahuac

Location of the sample / Localización de la muestra
 SC: Strip specimen / Rectangular
 EUL: Esherson Under Load Method
 Y.S.: Yield Strength / Fluencia

Orientation / Orientación
 UTS: Ultimate Tensile Strength / Resistencia
 Mbr: Minimum / Mínimo

Specimen condition / Condición de la probeta
 L: Longitudinal / Longitudinal
 Req. Min: Minimum Required / Mínimo Requerido
 Mbr: Longitudinal Minimum / Mínimo Longitudinal

As Rolled / Sin Tratamiento
 RT: Room Temperature / Temperatura Ambiente
 Oht: Obtained / Obtenido
 Mbr: Transverse Minimum / Mínimo Transversal

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DIGA 777 04 0

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CERTIFICADO DE PRUEBAS EN FABRICA

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08018034

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Date / Date
Mar 31, 2008

Tubos de Acero de Mexico S.A.
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Customer / Cliente
PLESA ANAHUAC Y CIA S. DE C.V.

Customer's Order / Orden Cliente - Item N°

Customer's Reference / Referencia del Cliente

Manufacturer's Work Order N° / Confirmacion de Venta
10937603

Manufacture Process / Proceso de fabricacion SEAMLESS HOT ROLLED LAMINADO EN CALIENTE SIN COSTURA	Product Type / Tipo de producto LINE PIPE SEAMLESS CONDUCCION	Steel Grade / Grado de acero B/X42 PSL1	Quantity / Cantidad 20 Pcs/lb	Surface / Superficie VARNISHED BARNIZADO	Ends / Extremos BISSELADO NORMAL NORMAL BEVEL
Standard or Specification / Normas o especificaciones L 2000/991/995-A95/99B	API 5L/ASTM A106/ASME SA106/ASTM A53 JULIO	Quantity / Cantidad 20 Pcs/lb	Nominal Weight / Peso Nominal 28.58 LB/FT 42.65 KCG/M		
Dimensions / Dimensiones 8.58 X 0.322 INCH 219.10 X 8.20 MM	Schedule / Cedula 040	Length / Longitud 19.70 / 21.30 FT 6.00 / 6.50 MTS			

HARDNESS TEST / ENSAYOS DE DUREZA

THROUGH WALL HARDNESS / DUREZA EN EL ESPESOR

Heat/Coida	Lot/Lote	Required / Requerido	HRC
38265		Min	Max 22.00
Sample/Muestra	15580	Zone/Zona	
Quadrant		1	2
Quadrant		3	Prom
Quadrant		Var	
Unit / Unidad		OD	76.7 76.1 76.7 76.5
		MW	75.9 76.2 75.0 75.7
HRBW		ID	76.2 77.3 75.6 76.4 0.8
Pipe N° / Tubo N°		IS	B

Heat/Coida	Lot/Lote	Required / Requerido	HRC
38265		Min	Max 22.00
Sample/Muestra	15581	Zone/Zona	
Quadrant		1	2
Quadrant		3	Prom
Quadrant		Var	
Unit / Unidad		OD	75.1 74.5 75.6 75.1
		MW	74.3 75.4 76.0 75.2
HRBW		ID	74.6 75.4 75.6 75.2 0.1
Pipe N° / Tubo N°		IS	B

A: As Babel / San Trazamiento
Mtr: Hahlem / Mtrino
Vr.: Veridich / Veridich

TECHNOLOGICAL TEST / ENSAYOS TECNOLÓGICOS

Heat N°	Sample N°	Flattening Test
Coida N°	Muestra N°	Ensayo de Apastamiento
38265	15580	GOOD BUENO
38265	15581	GOOD BUENO

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PLSA
ANAHUAC
CONTROLADA

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Tubos de Acero de Mexico S.A.
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Customer / Cliente	PLESA ANAHUAC Y CIA S, S.A. DE C.V.		Customer's Order / Orden Cliente - Item N°	10937603	
Manufacturer Process / Proceso de fabricacion	SEAMLESS HOT ROLLED LAMINADO EN CALIENTE SIN COSTURA		Product Type / Tipo de producto	LINE PIPE SEAMLESS CONDUCCION	
Standard or Specification / Normas o especificaciones	API 5L/ASTM A106/ASME SA106/ASTM A53 JULIO		Steel Grade / Grado de acero	B7X42 PSL1	
Dimensions / Dimensiones	8.50 X 0.322 INCH		Quantity / Cantidad	20 Pcs/Pz	
	Schedule / Cedula		040		
	Length / Longitud		19.70 / 21.30 FT		
			6.00 / 6.50 MTS		
	Nominal Weight / Peso Nominal		28.58 LB/FT		
			42.65 KGM		

CHEMICAL COMPOSITION / COMPOSICIÓN QUÍMICA

Heat / Colada	H	C	Mn	Si	Cr	Mo	S	P	Ni	V	Cu	Al	Sn	As	Nb	Ti	Ca	B	N	S1	S2	S3		
																							Max	Min
Sample N°	P	28	135	29	10	40	15	30	400	80	400										15	100		
Muestra N°	Min	28	135	29	10	40	15	30	400	80	400										15	100		
38265																								
00001	H	16	67	26	4	1.9	2.3	9	50	0	110	21	8	4	0	0	0	0	18	0	79	0	21.9	0
15380	P	17	68	26	4	1.8	1	9	50	0	110	21	8	4	0	0	0	0	13	0	79	0	21.8	0
15381	P	17	67	26	4	1.8	1.1	9	50	0	110	21	8	4	0	0	0	0	17	0	79	0	21.8	0

ADDITIONAL TESTS - ENSAYOS ADICIONALES

HYDROSTATIC TEST / PRUEBA HIDRÁULICA

Pressure / Presion	Time / Tiempo	Results / Resultado
Unit / Unidad	Value / Valor	Seconds / Segundos
PSI	2350	5
		Satisfactory / Satisfactorio

SUPPLEMENTARY INFORMATION / INFORMACIÓN SUPLEMENTARIA

Manufactured by / Fabricado por: Ternis Tama
 Steel making process / Fabricacion de acero: Electric Arc Furnace - Ladle Refining - Continuous Casting Machine - Fully Killed Steel / Hornos de Acero Electrico - Hornos de Afinacion
 Máquina de Colada Continua - Acero colado con aluminio.

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CERTIFICADO DE PRUEBAS EN FABRICA

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Customer / Cliente	PLESA ANAHUACY CIAS, S.A. DE C.V.	Customer's Order / Order / Cliente's Item N°	10937603
Manufacturer's Process / Proceso de fabricación	SEAMLESS HOT ROLLED LAMINADO EN CALIENTE SIN COSTURA	Surface / Superficie	VARNISHED BARNIZADO
Standard or Specification / Normas o especificaciones	API 5L/ASTM A 106/ASME SA106/ASTM A 33, JULIO B7X42 PSL1	Ends / Extremos	NORMAL BEVEL BISELADO NORMAL
Dimensions / Dimensiones	8.5" X 0.322 INCH 219.10 X 8.20 MM	Nominal Weight / Peso Nominal	28.58 LB/FT 42.65 KG/M
Schedule / Cédula	040	Quantity / Cantidad	20 Pcs/pz
Header Type / Tipo de producto	LINE PIPE SEAMLESS CONTROLADA		
Length / Longitud	19.70 / 21.30 FT 6.00 / 6.50 MTS		

SUPPLEMENTARY INFORMATION / INFORMACIÓN SUPLEMENTARIA

Material free from Mercury contamination / Material libre de contaminación de Mercurio
Not repaired by welding / No reparado por soldadura
Heat Treatment / Tratamiento térmico. Material as rolled / Sin tratamiento térmico
Non destructive test / Control no destructivo. Satisfactory / Satisfactorio
Inspection method / Método de inspección SR-4 - EMI - FLVI - MPI
MATERIAL DE ACUERDO A NACE MR0175-2003
TAMSA REF: 779110

This is to certify that the product described here has been manufactured, sampled, tested, and inspected in accordance with purchaser order requirements. This certificate is not a declaration of origin nor may it be used as a declaration of origin.



Quality System Certified
N° 110950

TENARIS QUALITY DEPARTMENT SIGNATURE

Juan Francisco Renato Avila Aldapa
JUAN FRANCISCO RENATO AVILA ALDAPA
OFFICE OF QUALITY CERTIFICATION DEPT
MEXICAN STEEL PIPE DEPARTMENT OF QUALITY

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