

CERTIFICADO DE PRUEBAS EN FABRICA
CERTIFICADO DE PRUEBAS EN FABRICA

Number / Número:
09005468

Page / Página:
1 / 6

Date / Día: **22 January 2009**

| | | | | |
|--|----------------------------------|--|---|--|
| Customer / Cliente: PLESA ANAHUAC Y CIAS, S.A. DE C.V. | | Customer's Order Item / Orden Cliente - Item: N/A | Customer's Reference / Ref. del Cliente: N/A | Manufacturer's Works Order N° / Confirmación de Venta: 118802/01 |
| Manufacturing Process / Proceso de Manufactura: SEAMLESS HOT ROLLED LAMINADO EN CALIENTE SIN COSTURA | | Product Type / Tipo de Producto: LINE PIPE SEAMLESS CONDUCCION SIN COSTURA | | Surface / Superficie: VARNISHED BARNIZADO |
| Standard or Specification / Normas o Especificaciones: API SPEC 5L, OCTOBER 1, 2007 | | | Steel Grade / Grado de acero: B/X42-L245/L290 PSL 1 | Ends / Extremos: NORMAL BEVEL BISELADO NORMAL |
| Dimensions / Dimensiones: 6 5/8 X 0.28 INCH 168.3 X 7.1 MM | Schedule / Cédula: 040 | Length / Longitud: 19.69 / 21.33 FT 6.00 / 6.50 MTS | Quantity / Cantidad: 122 Pcs/Pz | Nominal Weight / Peso Nominal: 18.99 LB/FT 28.22 KG/M |

TENSILE TEST / ENSAYO DE TENSION

| Heat N° Colada N° | Sample N° Muestra N° | Specimen condition Condición de la probeta | | | | Specimen dimensions Dimensiones de la probeta | | Test temp Temp. ensayo | Y.S. Eul 0.50 % | | U.T.S. Req. | Y.S./U.T.S. Req. Max. | Elongation / Alargamiento | | |
|----------------------|-------------------------|---|----|--------------|-----|--|-----------------|---------------------------|--------------------|-----|----------------|--------------------------|---------------------------|------|------|
| | | Ls | Sc | Type Tipo | Ori | Size Tamaño | Area Sección | | °C | MPa | MPa | | -- | Lo | Min. |
| | | | | | | | | mm | | | | mm ² | | | |
| 40744 | 19207 | B | AM | Ss | L | 25.44 X 07.26 | 184.69 | RT | 302 | 476 | 0.63 | 2 | 24.3 | 40.0 | |
| 40744 | 19208 | B | AM | Ss | L | 25.55 X 06.90 | 176.30 | RT | 313 | 483 | 0.65 | 2 | 24.0 | 37.0 | |
| 42418 | 15861 | B | AM | Ss | L | 25.41 X 07.55 | 191.85 | RT | 323 | 482 | 0.67 | 2 | 24.4 | 38.0 | |
| 42419 | 15863 | B | AM | Ss | L | 25.73 X 07.23 | 186.03 | RT | 322 | 478 | 0.67 | 2 | 24.3 | 37.0 | |
| 42422 | 15865 | B | AM | Ss | L | 25.5 X 07.02 | 179.01 | RT | 320 | 496 | 0.64 | 2 | 24.1 | 37.0 | |
| 42422 | 16281 | B | AM | Ss | L | 25.33 X 06.52 | 165.15 | RT | 345 | 511 | 0.67 | 2 | 23.7 | 37.0 | |

| | | | |
|--|--|---|--|
| AM: As manufactured / Según proceso de fabricación | Ls: Location of sample / Ubicación de la muestra | Ori: Orientation / Orientación | Sc: Specimen condition / Condición de la probeta |
| B: Body / Cuerpo | Max: Maximum / Máximo | Req. Max: Required maximum / Máximo requerido | Ss: Strip specimen / Muestra rectangular |
| L: Longitudinal / Longitudinal | Min: Minimum / Mínimo | Req: Required / Requerido | U.T.S: Ultimate tensile strength / Resistencia |
| Lo: Initial length / Longitud inicial | Obt: Obtained / Obtenido | RT: Room temperature / Temperatura ambiente | Y.S: Yield strength / Fluencia |

This certificate is issued by a computerized system and it is valid with electronic signature. On the original certificate the trade-mark green colored "Tenaris" is stamped. In case the owner of the original certificate would release a copy of it, he must attest its conformity to the original one taking upon himself the responsibility for any unlawful or not allowed use. Any alteration and/or falsification will be subjected to the law.

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Page / Página:
2 / 6

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CHEMICAL COMPOSITION / COMPOSICION QUIMICA

| | | Composition % / Composición % | | | | | | | | | | | | | | | | | | | | | |
|-----------|------------|-------------------------------|-----|-----|----|----|--------|-----|-----|-----|-----|-----|----|----|---------|----|----|-------|----|--------|--------|--------|---|
| | | x 100 | | | | | x 1000 | | | | | | | | x 10000 | | | x 100 | | | | | |
| | | C | Mn | Si | Cr | Mo | S | P | Ni | V | Cu | Al | Sn | As | Nb | Ti | Ca | B | N | Col. 1 | Col. 2 | Col. 3 | |
| | H Max | 28 | 120 | -- | 40 | 15 | 30 | 30 | 400 | 80 | 400 | -- | -- | -- | -- | -- | -- | -- | -- | 6 | 100 | 15 | |
| | H Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| Heat N° | Sample N° | P Max | 28 | 120 | -- | 40 | 15 | 30 | 30 | 400 | 80 | 400 | -- | -- | -- | -- | -- | -- | -- | 6 | 100 | 15 | |
| Colada N° | Muestra N° | P Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 40744 | 00001 | H | 17 | 66 | 27 | 4 | 1.5 | 1.9 | 10 | 50 | 0 | 117 | 22 | 7 | 4 | 0 | 0 | 13 | 0 | 55 | 0 | 22.2 | 0 |
| 40744 | 19207 | P | 16 | 68 | 27 | 4 | 1.5 | 1.8 | 10 | 50 | 0 | 118 | 23 | 7 | 4 | 0 | 0 | 14 | 0 | 55 | 0 | 22.3 | 0 |
| 40744 | 19208 | P | 17 | 67 | 27 | 4 | 1.5 | 1.9 | 9 | 50 | 0 | 118 | 23 | 7 | 4 | 0 | 0 | 16 | 0 | 55 | 0 | 22.3 | 0 |
| 42418 | 00001 | H | 17 | 67 | 29 | 6 | 2 | 1.7 | 11 | 50 | 0 | 118 | 21 | 10 | 4 | 0 | 0 | 22 | 0 | 55 | 0 | 24.8 | 0 |
| 42418 | 15861 | P | 17 | 67 | 30 | 6 | 2 | 0.4 | 10 | 50 | 0 | 124 | 21 | 9 | 4 | 0 | 0 | 15 | 0 | 55 | 0 | 25.4 | 0 |
| 42418 | 15862 | P | 17 | 66 | 30 | 5 | 2 | 0.6 | 10 | 50 | 0 | 122 | 21 | 9 | 4 | 0 | 0 | 17 | 0 | 55 | 0 | 24.2 | 0 |
| 42419 | 00001 | H | 17 | 68 | 27 | 7 | 2.3 | 2.2 | 11 | 60 | 0 | 143 | 21 | 11 | 5 | 0 | 0 | 21 | 0 | 56 | 0 | 29.6 | 0 |
| 42419 | 15863 | P | 17 | 67 | 29 | 6 | 2.2 | 1.3 | 11 | 50 | 0 | 138 | 21 | 10 | 4 | 0 | 0 | 15 | 0 | 56 | 0 | 27 | 0 |
| 42419 | 15864 | P | 17 | 67 | 29 | 6 | 2.1 | 1.4 | 10 | 50 | 0 | 134 | 20 | 10 | 4 | 0 | 0 | 18 | 0 | 56 | 0 | 26.5 | 0 |
| 42422 | 00001 | H | 18 | 76 | 30 | 7 | 2.8 | 2.3 | 11 | 60 | 0 | 148 | 22 | 11 | 4 | 0 | 0 | 22 | 0 | 65 | 0 | 30.6 | 0 |
| 42422 | 15865 | P | 18 | 75 | 31 | 7 | 2.7 | 1.2 | 10 | 60 | 0 | 149 | 22 | 11 | 4 | 0 | 0 | 21 | 0 | 65 | 0 | 30.6 | 0 |
| 42422 | 15866 | P | 18 | 75 | 31 | 7 | 2.7 | 1.2 | 10 | 60 | 0 | 149 | 21 | 11 | 4 | 0 | 0 | 18 | 0 | 65 | 0 | 30.6 | 0 |
| 42422 | 16281 | P | 18 | 71 | 31 | 6 | 2.9 | 2.3 | 12 | 50 | 0 | 154 | 23 | 11 | 4 | 0 | 0 | 18 | 0 | 65 | 0 | 29.3 | 0 |
| 42422 | 16282 | P | 18 | 70 | 31 | 6 | 2.9 | 2.3 | 12 | 50 | 0 | 153 | 23 | 11 | 4 | 0 | 0 | 18 | 0 | 65 | 0 | 29.2 | 0 |

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|-----------------------------------|------------------|----------------|
| CERTIFICADO DE PRUEBAS EN FABRICA | Number / Número: | Page / Página: |
| CERTIFICADO DE PRUEBAS EN FABRICA | 09005468 | 3 / 6 |
| Date / Día: 22 January 2009 | | |

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CHEMICAL COMPOSITION / COMPOSICIÓN QUÍMICA

| | | | |
|----------------------------|----------------------|-----------------------|-----------------------|
| Col. 1: SUMA Nb+V | Col. 3: SUMA Nb+V+Ti | Max: Maximum / Máximo | P: Product / Producto |
| Col. 2: SUMA Mo+Cr+Ni+Cu+V | H: Heat / Colada | Min: Minimum / Mínimo | |

THROUGH WALL HARDNESS / DUREZA EN EL ESPESOR

| Required values Valores requeridos | | Individuals / Individuales | | | Average / Promedio | | | Hardness type HRC Dureza tipo | | | |
|---------------------------------------|-------------------------|----------------------------|-----------|---------|--------------------|---------|---------|----------------------------------|------|------|--|
| | | Min: -- | Max: 22.0 | Var: -- | Min: -- | Max: -- | Var: -- | | | | |
| Heat N° Colada N° | Sample N° Muestra N° | Specimen condition | | Quad. | Scale Escala | MW | | | | Var. | |
| | | Ls | Sc | | | 1 | 2 | 3 | Avg. | | |
| 40744 | 19207 | B | AM | 1 | HRBW | 77.0 | 76.9 | 75.7 | 76.5 | 0.0 | |
| 40744 | 19208 | B | AM | 1 | HRBW | 76.3 | 77.2 | 75.5 | 76.3 | 0.0 | |
| 42418 | 15861 | B | AM | 1 | HRBW | 72.8 | 74.8 | 75.7 | 74.4 | 0.0 | |
| 42418 | 15862 | B | AM | 1 | HRBW | 75.8 | 74.9 | 75.7 | 75.5 | 0.0 | |
| 42419 | 15863 | B | AM | 1 | HRBW | 74.5 | 75.5 | 75.7 | 75.2 | 0.0 | |
| 42419 | 15864 | B | AM | 1 | HRBW | 75.7 | 84.1 | 75.6 | 78.5 | 0.0 | |
| 42422 | 15865 | B | AM | 1 | HRBW | 76.9 | 77.6 | 77.6 | 77.4 | 0.0 | |
| 42422 | 15866 | B | AM | 1 | HRBW | 77.3 | 77.4 | 78.5 | 77.7 | 0.0 | |
| 42422 | 16281 | B | AM | 1 | HRBW | 79.1 | 80.2 | 79.2 | 79.5 | 0.0 | |

| | | | |
|--|--|----------------------------|----------------------------|
| AM: As manufactured / Según proceso de fabricación | Ls: Location of sample / Ubicación de la muestra | MW: Middle wall / Centro | Var: Variation / Variación |
| Avg: Average / Promedio | Max: Maximum / Máximo | Quad: Quadrant / Cuadrante | |

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4 / 6

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THROUGH WALL HARDNESS / DUREZA EN EL ESPESOR

| | | |
|------------------|-----------------------|--|
| B: Body / Cuerpo | Min: Minimum / Mínimo | Sc: Specimen condition / Condición de la probeta |
|------------------|-----------------------|--|

HYDROSTATIC TEST / PRUEBA HIDRAULICA

| Pressure / Presión | | Time / Tiempo | Results / Resultado |
|--------------------|---------------|--------------------|------------------------------|
| Unit / Unidad. | Value / Valor | Seconds / Segundos | |
| PSI | 2,670 | 5 | Satisfactory / Satisfactorio |

HEAT TREATMENT / TRATAMIENTO TÉRMICO

| |
|---|
| Heat treatment / Tratamiento térmico: Pipe / Tubo |
| Quench media of heat treatment process / Medio de enfriamiento del tratamiento térmico: Water / Agua |
| Temperature Scale / Escala de Temperatura: °C |
| Type Tipo |
| As Rolled |

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5 / 6

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SUPPLEMENTARY INFORMATION / INFORMACIÓN SUPLEMENTARIA

| Supplementary Information Información Suplementaria | |
|---|---|
| Manufactured by Tenaris Tamsa Steel making process: Electric Arc Furnace-Ladle Furnace-Continuous Casting Machine. Fully Killed Steel Material free from Mercury contamination Not repaired by welding Non destructive test. Satisfactory Inspection method - - EMI - FLVI - MPI - MATERIAL DE ACUERDO A NACE MR0175-2003 Tamsa Ref: 855883 CERTIFICADO DE ACUERDO A: ASTM A106/ASME SA106/ASTM A53 ,06A/2001/07 | Fabricado por Tenaris Tamsa Fabricación del acero: Horno de Arco Eléctrico-Horno de Afinación-Máquina de Colada Continua. Acero calmado con aluminio Material libre de contaminación de Mercurio No reparado por soldadura Control no destructivo. Satisfactorio Método de inspección - - EMI - FLVI - MPI - MATERIAL DE ACUERDO A NACE MR0175-2003 Tamsa Ref: 855883 |

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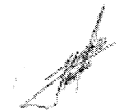
Page / Página:
6 / 6

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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.

Por el presente certificamos que el material aquí descrito ha sido fabricado, muestreado, ensayado e inspeccionado de acuerdo a los requisitos de su orden de compra. Este certificado no es, ni puede ser usado, como una declaración de origen.

| | | | |
|--|---|--|--|
|  Quality System Certified N° 110950 | CUSTOMER . THIRD PARTY | TENARIS QUALITY DEPARTMENT SIGNATURE | |
| | INSPECTION COMPANY COMPAÑIA DE INSPECCIÓN Company Name: N/A Employee Name: N/A |  QUALITY CERTIFICATION DEPT. DEPTO. DE CERTIFICACIÓN DE CALIDAD Israel de la Cruz Martínez |  CHIEF OF QUALITY CERTIFICATION DEPT. RESPONSABLE DEL DEPTO. DE CERTIFICACIÓN DE CALIDAD Juan Fco. Renato Avila Aldapa |

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