

CERTIFICADO DE PRUEBAS EN FABRICA
CERTIFICADO DE PRUEBAS EN FABRICA

Number / Número: Page / Página:

10030621 **1 / 6**

Date / Día: **June 26, 2010**

| | | | | | | | |
|--|--|--|---|--|--|--|--|
| 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: 143032/01 | |
| 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 PSL1 | | Ends / Extremos: NORMAL BEVEL BISELADO NORMAL | |
| Dimensions / Dimensiones: 2.875 X 0.276 INCH 73 X 7 MM | | Schedule / Cédula: 080 | Length / Longitud: 19.69 / 21.33 FT 6.00 / 6.50 MTS | | Quantity / Cantidad: 17 Pcs/Pz 357.579 FT 2733.734 LB 108.990 MTS 1240.000 KG | | Nominal Weight / Peso Nominal: 7.67 LB/FT 11.39 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. | | U.T.S. | | Elongation / Alargamiento | | | |
|----------------------|-------------------------|---|----|--------------|-----|--|-----------------|---------------------------|-------------|---------|--------|-------------|---------------------------|------|------|------|
| | | Ls | Sc | Type Tipo | Ori | Size Tamaño | Area Sección | | Eul 0.50 %. | | Req. | Y.S./U.T.S. | Req. Max. | Lo | Min. | Obt. |
| | | | | | | | | | Min: 290 | Max: -- | | | | | | |
| 47234 | 28811 | B | AM | Ss | L | 18.88 X 06.69 | 128,10 | RT | 424 | 556 | 0,76 | 2 | 22.5 | 38.0 | | |

| | | | |
|--|--|---|--|
| 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 |

CHEMICAL COMPOSITION / COMPOSICION QUIMICA

| Heat N° Colada N° | Sample N° Muestra N° | P | 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 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 47234 | 00001 | P | 28 | 120 | -- | 40 | 15 | 30 | 30 | 400 | 80 | 400 | -- | -- | -- | -- | -- | -- | -- | -- | 6 | 100 | 15 |
| 47234 | 28811 | P | 17 | 70 | 28 | 6 | 2.1 | 1.5 | 14 | 50 | 0 | 152 | 24 | 8 | 3 | 0 | 0 | 19 | 0 | 70 | 0 | 28.3 | 0 |
| 47234 | 28811 | P | 17 | 70 | 28 | 6 | 2.4 | 1.4 | 14 | 50 | 0 | 149 | 30 | 9 | 3 | 0 | 4 | 18 | 0 | 70 | 0 | 28.3 | 0.4 |

CONTROL DE CALIDAD

FECHA: 20 Junio 2010
 FIRMA: E. RUIZ

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| CERTIFICADO DE PRUEBAS EN FABRICA CERTIFICADO DE PRUEBAS EN FABRICA | Number / Número: 10030621 | Page / Página: 2 / 6 |
| Date / Día: June 26, 2010 | | |

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| 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: 143032/01 | |
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| Dimensions / Dimensiones: 2.875 X 0.276 INCH 73 X 7 MM | | Schedule / Cédula: 080 | | Length / Longitud: 19.69 / 21.33 FT 6.00 / 6.50 MTS | | Quantity / Cantidad: 17 Pcs/Pz 357.579 FT 2733.734 LB 108.990 MTS 1240.000 KG | |
| | | | | | | Nominal Weight / Peso Nominal: 7.67 LB/FT 11.39 KG/M | |

CHEMICAL COMPOSITION / COMPOSICIÓN QUÍMICA

| | | 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 | | |
| | 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° | | Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| 47234 | 28812 | P | | 16 | 70 | 27 | 6 | 2.2 | 1.3 | 14 | 50 | 0 | 152 | 23 | 9 | 3 | 0 | 4 | 13 | 0 | 70 | 0 | 28.4 | 0.4 |

| | | | |
|----------------------------|----------------------|-----------------------|-----------------------|
| 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 Tipo de dureza | | | | |
|---------------------------------------|------------|----------------------------|-----------|---------|--------------------|-----------------|---------|-------------------------------------|------|------|------|--|
| | | Min: -- | Max: 22.0 | Var: -- | Min: -- | Max: -- | Var: -- | MW | | | | |
| Heat N° | Sample N° | Specimen condition | | | Quad. | Scale Escala | | | | | Var. | |
| Colada N° | Muestra N° | Ls | Sc | | | | 1 | 2 | 3 | Avg. | | |
| 47234 | 28811 | B | AM | | 1 | HRBW | 77.7 | 77.9 | 77.7 | 77.8 | 0.0 | |
| 47234 | 28812 | B | AM | | 1 | HRBW | 77.2 | 75.2 | 77.2 | 76.5 | 0.0 | |

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

| | |
|---|---|
| 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. | Este certificado se emite mediante sistema computarizado y es validado con firma electrónica. El certificado original posee impreso el logo Tenaris color verde. En caso de que el poseedor del certificado entregue una copia, deberá garantizar la conformidad con el original haciéndose responsable por cualquier uso ilegal o indebido. Cualquier alteración y/o falsificación estará sujeta a la ley. |
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| | | | | Nominal Weight / Peso Nominal: | | | |
| | | | | 357.579 FT 2733.734 LB | | 7.67 LB/FT | |
| | | | | 108.990 MTS 1240.000 KG | | 11.39 KG/M | |

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: celcius | |
| Type Tipo | |
| asrolled | |

SUPPLEMENTARY INFORMATION / INFORMACIÓN SUPLEMENTARIA

| Supplementary Information Información Suplementaria | |
|--|---|
| Manufactured by TenarisTamsa 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 - API SPEC 5L, OCTOBER 1, 2007, FE.20090101/ASTM A106,08/ ASTM A53,07/ASME SA106,07 MATERIAL DE ACUERDO A NACE MR0175-2003 | Fabricado por TenarisTamsa Fabricación del acero: Homo 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 - API SPEC 5L, OCTOBER 1, 2007, FE.20090101/ASTM A106,08/ ASTM A53,07/ASME SA106,07 MATERIAL DE ACUERDO A NACE MR0175-2003 |

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| | |
|--|-------------------|
| Supplementary Information Información Suplementaria | |
| Tamsa Ref: 987853 | Tamsa Ref: 987853 |

SUMMARY REPORT / REPORTE RESUMEN

| Heat N° Colada N° | Quantity Cantidad (Pieces) | Length Longitud | | Weight Peso (Tons) |
|----------------------|----------------------------------|--------------------|--------|--------------------------|
| | | (ft) | (m) | |
| 47234 | 17 | 357.58 | 108.99 | 1.24 |

| Average length per pipe Longitud promedio por tubo | | Nominal weight per pipe Peso nominal por tubo | |
|---|-------|--|--------|
| (ft) | (m) | (lb/ft) | (kg/m) |
| 21.034 | 6.411 | 7.645 | 11.377 |


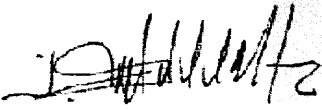
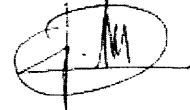
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This is to certify that the product described here has been manufactured, sampled, tested, and inspected in accordance with purchaser order requirements. This certificate is not a declaration of origin nor may it be used as a declaration of origin.

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° 110950/010 The certification covers the Tenaris Quality Management System exclusively | 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 Gonzalo Troncoso Torres |

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