

INSPECTION CERTIFICATE 3.1
 CERTIFICADO DE INSPECCIÓN 3.1
 EN 10204 3.1: 2004

| | | |
|-------------------------------------|------------------------------|--|
| Number / Número: 16029579 | Date / Día: October 21, 2016 | |
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|--|--|---|--|--|
| Customer / Cliente: PLESA ANAHUAC Y CIA, S.A. DE C.V. | | Customer's Order Item / Orden Cliente - Item: 24437 ITEM 2 | Customer's Reference / Ref. del Cliente: N/A | Manufacturer's Works Order N° / Confirmación de Venta: 246702/02 |
| Manufacturing Process / Proceso de Manufactura: SEAMLESS HOT ROLLED LAMINADO EN CALIENTE SIN COSTURA | | Product Type / Tipo de Producto: SEAMLESS LINE PIPE CONDUCCION SIN COSTURA | | |
| Standard or Specification / Normas o Especificaciones: API 5L E44/DECMBER 2012, ASTM A106/15, ASTM A53/12, ASME SA106/2015 | | Steel Grade / Grado de acero: B/X42-L245/L290 PSL1 | | |
| Dimensions / Dimensiones: 2.875 X 0.276 INCH 73 X 7 MM | | Schedule / Cédula: SCH 080 / W.C XS | Length / Longitud: 19.69 / 21.33 FT 6.00 / 6.50 MTS | Quantity / Cantidad: 114 Pcs/Pz 2358.596 FT 718.900 MTS |
| Ends / Extremos: NORMAL BEVEL BISELADO NORMAL | | Nominal Weight / Peso Nominal: 7.67 LB/FT 11.41 KG/M | | |

CHEMICAL COMPOSITION / COMPOSICION QUIMICA

| | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|-------|-----------|-------|-----|----|----|-----|-----|-----|-----|-----|----|----|----|-------|----|----|--------|--------|--------|---|
| Composition % / Composición % | | X 1000 | | | | | | | | | | | | | X 100 | | | | | | |
| C | Mn | Si | Mo | Cr | P | S | V | Nb | Ni | Cu | Sh | Al | Ti | As | B | Ca | N | Col. 1 | Col. 2 | Col. 3 | |
| H Max | 28 | 120 | 15 | 40 | 30 | 30 | 80 | 400 | 400 | 400 | -- | -- | -- | 10 | -- | -- | -- | 15 | 100 | 6 | |
| Min | -- | 29 | 10 | -- | 15 | 40 | 30 | 80 | 400 | 400 | -- | -- | -- | 10 | -- | -- | -- | 15 | 100 | 6 | |
| P Max | 28 | 120 | -- | 15 | 40 | 30 | 80 | 400 | 400 | 400 | -- | -- | -- | 10 | -- | -- | -- | 15 | 100 | 6 | |
| Min | -- | 29 | 10 | -- | 15 | 40 | 30 | 80 | 400 | 400 | -- | -- | -- | 10 | -- | -- | -- | 15 | 100 | 6 | |
| P | 16 | 70 | 28 | 2.7 | 8 | 11 | 1.1 | 0 | 0 | 50 | 230 | 10 | 20 | 0 | 4 | 0 | 11 | 67 | 0 | 38.7 | 0 |
| Heat N° | 83324 | Sample N° | 30906 | | | | | | | | | | | | | | | | | | |

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

THROUGH WALL HARDNESS / DUREZA EN EL ESPESOR

| | | | |
|-----------------|----------------------------|--------------------|----------------------------------|
| Required values | Individuals / Individuales | Average / Promedio | Hardness type/Tipo de dureza HRC |
| Min: -- | Max: 22.0 | Var: -- | |
| Heat N° | Sample N° | Specimen condition | Scale |
| 83324 | 30905 | Ls | Escala |
| 83324 | 30906 | B | MM |
| | | AM | |
| | | HRBW | |
| | | 1 | |
| | | 1 | |
| | | HRBW | |
| | | 77.0 | |
| | | 75.6 | |
| | | 75.5 | |
| | | 78.7 | |
| | | 78.2 | |
| | | 78.8 | |
| | | 78.6 | |

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

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| Manufacturing Process / Proceso de Manufactura: | | SEAMLESS HOT ROLLED LAMINADO EN CALIENTE SIN COSTURA | | Product Type / Tipo de Producto: | | SEAMLESS LINE PIPE CONDUCCION SIN COSTURA | |
| Standard or Specification / Normas o Especificaciones: | | API 5L ED45/DECEMBER 2012, ASTM A106/15, ASTM A53/12, ASME SA106/2015 | | Steel Grade / Grado de acero: | | B/X42-L245/L290 PSL1 | |
| Dimensions / Dimensiones: | | 2.875 X 0.276 INCH 73 X 7 MM | | Schedule / Cédula: | | SCH 080 / W.C XS | |
| Length / Longitud: | | 19.69 / 21.33 FT 6.00 / 6.50 MTS | | Quantity / Cantidad: 114 Pcs/Pz | | 2358.596 FT 718.900 MTS | |
| Nominal Weight / Peso Nominal: | | 7.67 LB/FT 11.41 KG/M | | Nominal Weight / Peso Nominal: | | 7.67 LB/FT 11.41 KG/M | |
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| Ends / Extremos: | | NORMAL BEVEL | | Ends / Extremos: | | BARNIZADO | |
| Surface / Superficie: | | VARNISHED | | Surface / Superficie: | | BARNIZADO | |

| | |
|---|-----------------------|
| THROUGH WALL HARDNESS / DUREZA EN EL ESPESOR | |
| B: Body / Cuerpo | Min: Minimum / Mínimo |
| Sc: Specimen condition / Condición de la probeta | |

| | | | |
|------------------------------------|-------|----|--------------|
| Heat N° / Sample N° / Result | LS | Sc | Resultado |
| Colada N° / Muestra N° / Resultado | B | AM | Good / Bueno |
| 83324 | 30906 | | |

| | |
|--|------------------|
| HYDROSTATIC TEST / PRUEBA HIDRAULICA | |
| AM: As manufactured / Según proceso de fabricación | B: Body / Cuerpo |
| Ls Location of sample / Ubicación de la muestra | |
| Sc: Specimen condition / Condición de la probeta | |

| | | |
|--------------------|---------------|------------------------------|
| Pressure / Presión | Time / Tiempo | Results / Resultado |
| Unit / Unidad: | Value / Valor | Seconds / Segundos |
| 20.5 | 5 | Satisfactory / Satisfactorio |

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| Schedule / Cédula: SCH 080 / W.C XS | | Ends / Extremos: BISELADO NORMAL NORMAL BEVEL BARNIZADO VARNISHED Surface / Superficie: | | |

HEAT TREATMENT / TRATAMIENTO TÉRMICO

| | | |
|---|---|--|
| Heat treatment / Tratamiento térmico: Pipe / Tubo | Quench media or heat treatment process / Medio de enfriamiento del tratamiento térmico: n/a | Temperature Scale / Escala de Temperatura: n/a |
| Type | asrolled | |

SUPPLEMENTARY INFORMATION / INFORMACION SUPLEMENTARIA

| | |
|---------------------------|--|
| Supplementary Information | <p>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 - MATERIAL ACCORDING TO NACE MR0175 / ISO 15156-2: 2009 AND NACE MR0103, 2010 ONLY FOR HARDNESS 22 HRC MAX. Tamsa Ref: 803361</p> |
| Supplementary Information | <p>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 - MATERIAL DE ACUERDO A NACE MR0175 / ISO 15156-2: 2009 Y NACE MR0103, 2010 SOLO DUREZA MAX 22 HRC Tamsa Ref: 803361</p> |

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| Nominal weight per pipe | | Average length per pipe | Weight |
| Nominal weight per tube | | Quantity | Heat N° |
| (lb/ft) | | (Pieces) | Colada N° |
| (kg/m) | | Length | Weight |
| Longitud promedio por tubo | | Quantity | Heat N° |
| (ft) | | (Pieces) | Colada N° |
| Average length per pipe | | Length | Weight |
| 20.689 | | 114 | 83324 |
| 6.306 | | 2,358.6 | 718.9 |
| 7.545 | | 718.9 | 8.072 |
| 11.228 | | | |

SUMMARY REPORT / REPORTE RESUMEN

| | | | |
|--|--|---|--|
| 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. | |
| CUSTOMER, THIRD PARTY | | TENARIS QUALITY DEPARTMENT SIGNATURE | |
| INSPECTION COMPANY COMPANIA DE INSPECCION NO APLICA Employee Name: N/A | | QUALITY CERTIFICATION DEPT. DEPTO. DE CERTIFICACION DE CALIDAD Roberto Carlos Pulido Corte | |
| RESPONSABLE DEL DEPTO. DE CERTIFICACION DE CALIDAD CHIEF OF QUALITY CERTIFICATION DEPT. Angel César Alemán Gil | | 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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