

MILL TEST CERTIFICATE
CERTIFICADO DE PRUEBAS EN FABRICA

Number / Número: **14065484**
 Page / Página: **1 / 6**
 Date / Día: **December 06, 2014**

| | | | | |
|--|---|--|--|---|
| 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: 19491 | Manufacturer's Works Order N° / Confirmación de Venta: 223861/01 |
| 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 5L ED45/DECEMBER 2012, ASTM A106/14, ASTM A53/12, ASME SA106/2013 | | | Steel Grade / Grado de acero: B/X42-L245/L290 PSL1 | Ends / Extremos: NORMAL BEVEL BISELADO NORMAL |
| Dimensions / Dimensiones: 3.500 X 0.3 INCH 88.9 X 7.6 MM | Schedule / Cédula: SCH 080 / W.C XS | Length / Longitud: 19.69 / 21.33 FT 6.00 / 6.50 MTS | Quantity / Cantidad: 128 Pcs/Pz 2715.978 FT 28062.664 LB 827.830 MTS 12729.000 KG | Nominal Weight / Peso Nominal: 10.26 LB/FT 15.27 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 °C | Y.S. Eul 0.50 % Min: 290 Max: -- | | U.T.S. Req. Min: 415 Max: -- | | Y.S./U.T.S. Req. Max. -- | | | Elongation / Alargamiento | | |
|----------------------|-------------------------|---|----|--------------|-----|--|------------------------|---------------------------------|---|-----|---------------------------------------|----|--------------------------------|------|------|---------------------------|---|---|
| | | Ls | Sc | Type Tipo | Ori | Size Tamaño mm | Area Sección mm2 | | MPa | MPa | -- | -- | Lo | Min. | Obt. | in | % | % |
| | | | | | | | | | | | | | | | | | | |
| 7470 | 71228 | B | AM | Ss | L | 19.22 X 07.66 | 148,65 | RT | 346 | 506 | 0,68 | 2 | 23.3 | 41.0 | | | | |
| 9331 | 22560 | B | AM | Ss | L | 19.34 X 07.68 | 149,99 | RT | 358 | 501 | 0,72 | 2 | 23.3 | 40.0 | | | | |

| | | | |
|--|--|---|--|
| 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 / COMPOSICIÓN QUÍMICA

| Heat N° Colada N° | Sample N° Muestra N° | Composition % / Composición % | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-------------------------|-------------------------------|-----|----|-----|----|--------|----|----|----|----|----|-----|-----|----|----|---------|----|----|--------|--------|--------|------|-----|
| | | X 100 | | | | | X 1000 | | | | | | | | | | X 10000 | | | X 100 | | | | |
| | | C | Mn | Si | Mo | Cr | P | S | V | Nb | Ni | Cu | Sn | Al | Ti | As | B | Ca | N | Col. 1 | Col. 2 | Col. 3 | | |
| 7470 | 00001 | H | Max | 28 | 120 | -- | 15 | 40 | 30 | 30 | 80 | -- | 400 | 400 | -- | -- | -- | -- | -- | 15 | 100 | 6 | | |
| | | Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| 7470 | 00001 | P | Max | 28 | 120 | -- | 15 | 40 | 30 | 30 | 80 | -- | 400 | 400 | -- | -- | -- | -- | -- | 15 | 100 | 6 | | |
| | | Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| 7470 | 00001 | H | | 19 | 76 | 31 | 0.1 | 7 | 7 | 1 | 1 | 1 | 10 | 34 | 2 | 22 | 2 | 0 | 1 | 14 | 64 | 0.4 | 11.6 | 0.2 |

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CHEMICAL COMPOSITION / COMPOSICIÓN QUÍMICA

| | | Composition % / Composición % | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-------------------------|-------------------------------|-------|----|-----|-----|--------|----|-----|----|----|----|-----|-----|----|----|---------|----|----|--------|--------|--------|-----|
| | | x 100 | | | | | x 1000 | | | | | | | | | | x 10000 | | | x 100 | | | |
| | | C | Mn | Si | Mo | Cr | P | S | V | Nb | Ni | Cu | Sn | Al | Ti | As | B | Ca | N | Col. 1 | Col. 2 | Col. 3 | |
| Heat N° Colada N° | Sample N° Muestra N° | P | H Max | 28 | 120 | -- | 15 | 40 | 30 | 30 | 80 | -- | 400 | 400 | -- | -- | -- | -- | -- | -- | 15 | 100 | 6 |
| | | | Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 7470 | 71228 | P | 19 | 71 | 28 | 0.5 | 7 | 7 | 1.1 | 0 | 0 | 20 | 25 | 2 | 19 | 0 | 1 | 0 | 13 | 68 | 0 | 12 | 0 |
| 7470 | 71229 | P | 19 | 72 | 28 | 0.5 | 7 | 7 | 1.2 | 0 | 0 | 20 | 25 | 2 | 19 | 0 | 1 | 0 | 14 | 70 | 0 | 12 | 0 |
| 9331 | 00001 | H | 18 | 75 | 30 | 0.6 | 8 | 11 | 2 | 2 | 0 | 20 | 68 | 6 | 21 | 0 | 4 | 0 | 14 | 61 | 0.2 | 17.6 | 0.2 |
| 9331 | 22560 | P | 18 | 72 | 28 | 1 | 8 | 11 | 2 | 0 | 0 | 20 | 66 | 5 | 22 | 0 | 4 | 0 | 15 | 62 | 0 | 17.6 | 0 |
| 9331 | 22561 | P | 18 | 72 | 29 | 0.9 | 8 | 11 | 1.6 | 0 | 0 | 20 | 65 | 5 | 22 | 0 | 4 | 0 | 15 | 59 | 0 | 17.4 | 0 |

Col. 1: SUMA Nb+V+Ti

Col. 3: SUMA Nb+V

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/Tipo de dureza:HRC | | | | |
|---------------------------------------|-------------------------|----------------------------|-----------|---------|--------------------|---------|---------|----------------------------------|------|------|------|------|
| | | Min: -- | Max: 22.0 | Var: -- | Min: -- | Max: -- | Var: -- | | | | | |
| Heat N° Colada N° | Sample N° Muestra N° | Specimen condition | | | | | Quad. | Scale Escala | MW | | | |
| | | Ls | | Sc | | | | | 1 | 2 | 3 | Avg. |
| 7470 | 71228 | B | | AM | | | 1 | HRBW | 75.1 | 75.5 | 76.1 | 75.6 |
| 7470 | 71229 | B | | AM | | | 1 | HRBW | 76.8 | 77.1 | 77.1 | 77.0 |

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THROUGH WALL HARDNESS / DUREZA EN EL ESPESOR

| Required values Valores requeridos | | Individuals / Individuales | | | Average / Promedio | | | Hardness type/Tipo de dureza:HRC | | MW | | | |
|---------------------------------------|-------------------------|----------------------------|-----------|---------|--------------------|---------|---------|----------------------------------|------|------|------|------|--|
| | | Min: -- | Max: 22.0 | Var: -- | Min: -- | Max: -- | Var: -- | | | | | | |
| Heat N° Colada N° | Sample N° Muestra N° | Specimen condition | | | | | Quad. | Scale Escala | | | | | |
| | | Ls | Sc | | | | | | 1 | 2 | 3 | Avg. | |
| 9331 | 22560 | B | AM | | | | 1 | HRBW | 77.0 | 78.0 | 77.2 | 77.4 | |
| 9331 | 22561 | B | AM | | | | 1 | HRBW | 76.3 | 77.0 | 77.4 | 76.9 | |

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

B: Body / Cuerpo

Min: Minimum / Mínimo

Sc: Specimen condition / Condición de la probeta

FLATTENING TEST / ENSAYO DE APLASTAMIENTO

| Standard / Norma: | | | Standard / Norma: | | |
|----------------------|-------------------------|---------------------|----------------------|-------------------------|---------------------|
| Heat N° Colada N° | Sample N° Muestra N° | Result Resultado | Heat N° Colada N° | Sample N° Muestra N° | Result Resultado |
| 7470 | 71229 | Good / Bueno | 9331 | 22561 | Good / Bueno |

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HYDROSTATIC TEST / PRUEBA HIDRAULICA

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

HEAT TREATMENT / TRATAMIENTO TERMICO

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

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 | Fabricado por TenarisTamsa Fabricación del acero: Horno de Arco Eléctrico-Horno de Afinación-Máquina de Colada Continua. Acero calmado con aluminio Material libre de contaminación de Mercurio |

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|--|--|
| Not repaired by welding Non destructive test. Satisfactory Inspection method .- EMI - FLVI - MPI - ASTM A106/14, ASTM A53/12, ASME SA106/2013 MATERIAL ACCORDING TO NACE MR0175 / ISO 15156-2, 2009 AND NACE MR0103, 2010 ONLY FOR HARDNESS 22 HRC MAX. Tamsa Ref: 076226 | No reparado por soldadura Control no destructivo. Satisfactorio Método de inspección .- EMI - FLVI - MPI - ASTM A106/14, ASTM A53/12, ASME SA106/2013 MATERIAL DE ACUERDO A NACE MR0175 / ISO 15156-2, 2009 Y NACE MR0103, 2010 SOLO DUREZA MAX. 22 HRC Tamsa Ref: 076226 |

SUMMARY REPORT / REPORTE RESUMEN

| Heat N° Colada N° | Quantity Cantidad (Pieces) | Length Longitud (ft) (m) | | Weight Peso (Tons) |
|----------------------|----------------------------------|--------------------------------|--------|--------------------------|
| 7470 | 4 | 84.78 | 25.84 | 0.397 |
| 9331 | 124 | 2,631.2 | 801.99 | 12.332 |

| Average length per pipe Longitud promedio por tubo | | Nominal weight per pipe Peso nominal por tubo | |
|---|-------|--|--------|
| (ft) | (m) | (lb/ft) | (kg/m) |
| 21.219 | 6.467 | 10.332 | 15.376 |

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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.

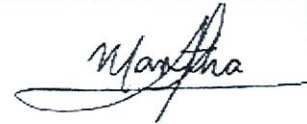
Por el presente certificamos que el material aquí descrito ha sido fabricado, muestreado, ensayado e inspeccionado de acuerdo a los requisitos de su orden de compra. Este certificado no es, ni puede ser usado, como una declaración de origen.

CUSTOMER . THIRD PARTY

INSPECTION COMPANY
 COMPAÑIA DE INSPECCIÓN

NO APLICA
 Employee Name: N/A

TENARIS QUALITY DEPARTMENT SIGNATURE



QUALITY CERTIFICATION DEPT.
 DEPTO. DE CERTIFICACIÓN DE CALIDAD
 Martha Peña Lorenzo



CHIEF OF QUALITY CERTIFICATION DEPT.
 RESPONSABLE DEL DEPTO. DE CERTIFICACIÓN DE CALIDAD
 Rafael Gutiérrez de Velasco Magallanes

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