

MILL TEST CERTIFICATE
CERTIFICADO DE PRUEBAS EN FABRICA

Number / Número:

15025200

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Date / Día: **June 25, 2015**

| | | | | | | | |
|--|--|--|--|---|--|--|--|
| Customer / Cliente: PLESA ANAHUAC Y CIAS. S.A. DE C.V. | | Customer's Order Item / Orden Cliente - Item: 21099 ITEM 3 | | Customer's Reference / Ref. del Cliente: N/A | | Manufacturer's Works Order N° / Confirmación de Venta: 232616/01 | |
| 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 0.216 INCH 88.9 X 5.5 MM | | Schedule / Cédula: SCH 040 / W.C STD | | Length / Longitud: 19.69 / 21.33 FT 6.00 / 6.50 MTS | | Quantity / Cantidad: 83 Pcs/Pz 1728.084 FT 13706.150 LB 526.720 MTS 6217.000 KG | |
| | | | | | | Nominal Weight / Peso Nominal: 7.58 LB/FT 11.29 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. | | | Elongation / Alargamiento | | | |
|----------------------|-------------------------|---|----|--------------|-----|--|------------------------|---------------------------|----------------------------|----------------------------|-----------------|-----------------|-----------------|------|------|---------------------------|----|---|---|
| | | Ls | Sc | Type Tipo | Ori | Size Tamaño mm | Area Sección mm2 | | Min: 290 Max: -- MPa | Min: 415 Max: -- MPa | Req. Max. -- | Req. Max. -- | Req. Max. -- | Lo | Min. | Obt. | mm | % | % |
| | | | | | | | | | | | | | | | | | | | |
| 77387 | 02342 | B | AM | Ss | L | 19.33 X 05.44 | 106,12 | RT | 382 | 543 | 0,70 | 50,8 | 21,8 | 37,0 | | | | | |
| 77502 | 02344 | B | AM | Ss | L | 19.43 X 05.67 | 111,20 | RT | 390 | 536 | 0,73 | 50,8 | 21,9 | 36,0 | | | | | |

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 / Requendo

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 QUIMICA

| 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 |
| 77387 | 00001 | H | Max | 28 | 120 | -- | 15 | 40 | 30 | 30 | 80 | -- | 400 | 400 | -- | -- | -- | -- | -- | -- | 15 | 100 | 6 |
| | | | Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 77387 | 00001 | H | P Max | 28 | 120 | -- | 15 | 40 | 30 | 30 | 80 | -- | 400 | 400 | -- | -- | -- | -- | -- | -- | 15 | 100 | 6 |
| | | | P Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

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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| | | | | | | Nominal Weight / Peso Nominal: 7.58 LB/FT 11.29 KG/M | |

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 | |
| | H | Max | 28 | 120 | -- | 15 | 40 | 30 | 30 | 80 | -- | 400 | 400 | -- | -- | -- | -- | -- | -- | 15 | 100 | 6 | |
| | H | Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| Heat N° | Sample N° | P | Max | 28 | 120 | -- | 15 | 40 | 30 | 30 | 80 | -- | 400 | 400 | -- | -- | -- | -- | -- | 15 | 100 | 6 | |
| Colada N° | Muestra N° | Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 77387 | 02342 | P | 21 | 89 | 18 | 2.3 | 6 | 7 | 1.8 | 0 | 0 | 50 | 133 | 11 | 24 | 0 | 4 | 0 | 13 | 60 | 0 | 26.6 | 0 |
| 77387 | 02343 | P | 21 | 87 | 18 | 2.3 | 6 | 7 | 1.8 | 0 | 0 | 50 | 131 | 11 | 22 | 0 | 3 | 0 | 15 | 61 | 0 | 26.4 | 0 |
| 77502 | 00001 | H | 20 | 87 | 17 | 4.8 | 5 | 6 | 2.2 | 0 | 0 | 40 | 99 | 10 | 22 | 0 | 4 | 0 | 18 | 66 | 0 | 23.7 | 0 |
| 77502 | 02344 | P | 21 | 86 | 16 | 5.1 | 6 | 6 | 2.2 | 0 | 0 | 40 | 99 | 8 | 23 | 0 | 3 | 0 | 16 | 70 | 0 | 25 | 0 |
| 77502 | 02345 | P | 21 | 86 | 17 | 5.1 | 6 | 6 | 2 | 0 | 0 | 40 | 98 | 9 | 23 | 0 | 3 | 0 | 16 | 63 | 0 | 24.9 | 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 | | Individuals / Individuales | | | Average / Promedio | | | Hardness type/Tipo de dureza:HRC | | | |
|--------------------|-----------|----------------------------|-----------|---------|--------------------|---------|---------|----------------------------------|------|------|------|
| Valores requeridos | | Min: -- | Max: 22.0 | Var: -- | Min: -- | Max: -- | Var: -- | | | | |
| Heat N° | Sample N° | Specimen condition | | | Quad | Scale | MW | | | | |
| | | Ls | | Sc | | | Escala | | 1 | 2 | 3 |
| 77387 | 02342 | B | | | AM | 1 | HRBW | 77.2 | 77.8 | 78.0 | 77.7 |
| 77387 | 02343 | B | | | AM | 1 | HRBW | 78.2 | 79.1 | 79.9 | 79.1 |

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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 | | |
|---------------------------------------|-------------------------|----------------------------|-----------|--------|--------------------|-----------------|--------|----------------------------------|------|------|
| | | 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. |
| 77502 | 02344 | B | AM | | 1 | HRBW | 79.8 | 79.7 | 80.3 | 79.9 |
| 77502 | 02345 | B | AM | | 1 | HRBW | 79.1 | 79.0 | 80.0 | 79.4 |

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 |
| 77387 | 02343 | Good / Bueno | 77502 | 02345 | 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 | |
| Quench media of heat treatment process / Medio de enfriamiento del tratamiento térmico: n/a | |
| Temperature Scale / Escala de Temperatura: n/a | |
| | Type Tipo |
| asrolled | |

SUPPLEMENTARY INFORMATION / INFORMACION SUPLEMENTARIA

| Supplementary Information Información Suplementaria | |
|--|--|
| Manufactured by TenarisTamsa Steel making process: Electric Arc Furnace-Ladle Furnace-Continuous Casting Machine Fully Killed Steel | Fabricado por TenarisTamsa Fabricación del acero: Horno de Arco Eléctrico-Horno de Afinación-Máquina de Colada Continua. Acero calmado con aluminio |

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Supplementary Information
 Información Suplementaria

| | |
|---|---|
| Material free from Mercury contamination 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. 647939 | Material libre de contaminación de Mercurio 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 647939 |
|---|---|

SUMMARY REPORT / REPORTE RESUMEN

| Heat N° Colada N° | Quantity Cantidad (Pieces) | Length Longitud (ft) (m) | | Weight Peso (Tons) | Heat N° Colada N° | Quantity Cantidad (Pieces) | Length Longitud (ft) (m) | | Weight Peso (Tons) |
|----------------------|----------------------------------|-------------------------------------|--------|--------------------------|----------------------|----------------------------------|-------------------------------------|-------|--------------------------|
| 77387 | 70 | 1,456.3 | 443.88 | 5.228 | 77502 | 13 | 271.78 | 82.84 | 0.989 |

| Average length per pipe Longitud promedio por tubo | | Nominal weight per pipe Peso nominal por tubo | |
|---|-------|--|--------|
| (ft) | (m) | (lb/ft) | (kg/m) |
| 20.82 | 6.346 | 7.931 | 11.803 |

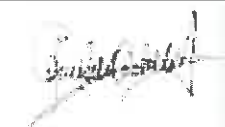

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This is to certify that the product described here has been manufactured, sampled, tested, and inspected in accordance with purchaser order requirements. This certificate is not a declaration of origin nor may it be used as a declaration of origin.
 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 COMPAÑÍA DE INSPECCIÓN NO APLICA Employee Name: N/A | TENARIS QUALITY DEPARTMENT SIGNATURE  QUALITY CERTIFICATION DEPT. DEPTO. DE CERTIFICACIÓN DE CALIDAD Teresa M. Castellá Abraham |
|  CHIEF OF QUALITY CERTIFICATION DEPT. RESPONSABLE DEL DEPTO. DE CERTIFICACIÓN DE CALIDAD Angel César Alemán Gil | |

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