

CERTIFICADO DE PRUEBAS EN FABRICA
CERTIFICADO DE PRUEBAS EN FABRICA

 Number / Número: **12030368**
 Page / Página: **1 / 6**
 Date / Día: **May 09, 2012**

| | | | | | | | |
|--|--|--|--|---|--|---|--|
| 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: 175108/01 | |
| 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: 12.750 X 0.406 INCH 323.9 X 10.3 MM | | Schedule / Cédula: 040 | | Length / Longitud: 19.69 / 21.33 FT 6.00 / 6.50 MTS | | Quantity / Cantidad: 4 Pcs/Pz 84.711 FT 4614.279 LB 25.820 MTS 2093.000 KG | |
| | | | | Nominal Weight / Peso Nominal: 53.57 LB/FT 79.65 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 % Min: 290 Max: - | Req. Min: 415 Max: - | Y.S./U.T.S. Req. Max. - | Lo | Min. | Obt. |
| | | | | | | | | | | | | | | |
| 60638 | 09641 | B | AM | Ss | L | 38.15 X 10.19 | 388.75 | RT | 334 | 504 | 0.66 | 2 | 28.2 | 40.0 |
| 60639 | 09643 | B | AM | Ss | L | 38.21 X 10.12 | 386.69 | RT | 334 | 505 | 0.66 | 2 | 28.1 | 42.0 |

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

| | | Composition % / Composición % | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-------------------------|-------------------------------|----|-----|----|----|--------|-----|----|-----|----|---------|----|----|----|-------|----|----|---|--------|--------|--------|---|
| | | x 100 | | | | | x 1000 | | | | | x 10000 | | | | x 100 | | | | | | | |
| Heat N° Colada N° | Sample N° Muestra N° | 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 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| | P | Max | 28 | 120 | - | 40 | 15 | 30 | 30 | 400 | 80 | 400 | - | - | - | - | - | - | - | 6 | 100 | 15 | |
| | P | Min | - | 29 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 60638 | 00001 | H | 17 | 75 | 28 | 7 | 2.4 | 2.2 | 15 | 50 | 0 | 137 | 22 | 8 | 3 | 0 | 0 | 19 | 0 | 78 | 0 | 28.1 | 0 |

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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CHEMICAL COMPOSITION / COMPOSICIÓN QUÍMICA

| | | Composition % / Composición % | | | | | | | | | | | | | | | | | | | | | |
|-----------|------------|-------------------------------|-----|-----|-----|----|----------------|-----|----|-----|-----|---------|-----|----|----|---------|----|----|---|--------|--------|--------|---|
| | | x 100 | | | | | x 1000 | | | | | x 10000 | | | | x 100.0 | | | | | | | |
| | | C | Mn | Si | Cr | Mo | S ₂ | 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° | | Min | — | 29 | 10 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| 60638 | 09641 | P | 18 | 74 | 28 | 7 | 2.4 | 1.6 | 15 | 50 | 0 | 129 | 21 | 7 | 3 | 0 | 0 | 20 | 0 | 78 | 0 | 27.3 | 0 |
| 60638 | 09642 | P | 18 | 74 | 27 | 7 | 2.4 | 1.6 | 15 | 50 | 0 | 130 | 21 | 7 | 3 | 0 | 0 | 19 | 0 | 78 | 0 | 27.4 | 0 |
| 60639 | 00001 | H | 17 | 69 | 29 | 7 | 2.5 | 2 | 15 | 50 | 0 | 151 | 22 | 8 | 3 | 0 | 0 | 16 | 0 | 77 | 0 | 29.6 | 0 |
| 60639 | 09643 | P | 18 | 68 | 29 | 6 | 2.4 | 1 | 15 | 50 | 0 | 143 | 22 | 7 | 3 | 0 | 0 | 18 | 0 | 77 | 0 | 27.7 | 0 |
| 60639 | 09644 | P | 18 | 68 | 29 | 7 | 2.4 | 1.2 | 15 | 50 | 0 | 143 | 22 | 7 | 3 | 0 | 0 | 19 | 0 | 77 | 0 | 28.7 | 0 |

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 | | Individuals / Individuales | | | Average / Promedio | | | Hardness type HRC | | | | | | | | | | |
|--------------------|-----------|----------------------------|-----------|--------|--------------------|--------|--------|-------------------|------|------|------|------|------|------|------|------|------|-----|
| Valores requeridos | | Min: — | Max: 22.0 | Var: — | Min: — | Max: — | Var: — | Tipo de dureza | | | | | | | | | | |
| Heat N° | Sample N° | Specimen condition | | Quad. | Scale | OD | | | MW | | | ID | | | | Var. | | |
| | | Ls | Sc | | | 1 | 2 | 3 | Avg. | 1 | 2 | 3 | Avg. | | | | | |
| 60638 | 09641 | B | AM | 1 | HRBW | 85.7 | 85.0 | 85.2 | 85.3 | 85.6 | 85.7 | 85.8 | 85.7 | 85.8 | 86.1 | 85.9 | 85.9 | 0.6 |
| 60638 | 09642 | B | AM | 1 | HRBW | 86.5 | 85.4 | 85.0 | 85.6 | 85.2 | 85.8 | 86.5 | 85.8 | 86.8 | 85.8 | 85.8 | 86.1 | 0.5 |

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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: - | | | | | | | | | | |
| Heat N° Colada N° | Sample N° Muestra N° | Specimen condition | | Quad. | Scale Escala | OD | | | | MW | | | | ID | | | | Var. |
| | | Ls | Sc | | | 1 | 2 | 3 | Avg. | 1 | 2 | 3 | Avg. | 1 | 2 | 3 | Avg. | |
| 60639 | 09643 | B | AM | 1 | HRBW | 85.2 | 84.0 | 85.1 | 84.8 | 85.2 | 85.9 | 85.1 | 85.4 | 85.0 | 84.9 | 84.9 | 84.9 | 0.6 |
| 60639 | 09644 | B | AM | 1 | HRBW | 85.6 | 85.8 | 85.8 | 85.7 | 86.6 | 85.8 | 86.0 | 86.1 | 86.6 | 86.6 | 86.0 | 86.4 | 0.7 |

AM: As manufactured / Según proceso de fabricación ID: Internal diameter / Diámetro interno Min: Minimum / Mínimo Quad: Quadrant / Cuadrante
 Avg: Average / Promedio Ls: Location of sample / Ubicación de la muestra MW: Middle wall / Centro Sc: Specimen condition / Condición de la probeta
 B: Body / Cuerpo Max: Maximum / Máximo OD: Outside diameter / Diámetro externo Var: Variation / Variación

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 |
| 60638 | 09641 | Good / Bueno | 60639 | 09643 | Good / Bueno |

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HYDROSTATIC TEST / PRUEBA HIDRAULICA

| Pressure / Presión | | Time / Tiempo | Results / Resultado |
|--------------------|---------------|--------------------|------------------------------|
| Unit / Unidad. | Value / Valor | Seconds / Segundos | |
| psi | 2,280 | 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: Water / Agua | |
| Temperature Scale / Escala de Temperatura: celcius | |
| 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 / INFORMACION SUPLEMENTARIA

| Supplementary Information Información Suplementaria | |
|---|--|
| 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 A106,11/ ASTM A53,10/ASME SA106,2010 MATERIAL ACCORDING TO NACE MR0175-2003 Tamsa Ref: 239120 | 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 A106,11/ ASTM A53,10/ASME SA106,2010 MATERIAL DE ACUERDO A NACE MR0175-2003 Tamsa Ref: 239120 |

SUMMARY REPORT / REPORTE RESUMEN

| Heat N° Colada N° | Quantity Cantidad (Pieces) | Length Longitud | | Weight Peso (Tons) | Heat N° Colada N° | Quantity Cantidad (Pieces) | Length Longitud | | Weight Peso (Tons) |
|----------------------|----------------------------------|--------------------|-------|--------------------------|----------------------|----------------------------------|--------------------|-----|--------------------------|
| | | (ft) | (m) | | | | (ft) | (m) | |
| 60638 | 3 | 63.39 | 19.32 | 1.563 | 60639 | 1 | 21.33 | 6.5 | 0.53 |

| Average length per pipe Longitud promedio por tubo | | Nominal weight per pipe Peso nominal por tubo | |
|---|-------|--|--------|
| (ft) | (m) | (lb/ft) | (kg/m) |
| 21.18 | 6.455 | 54.465 | 81.061 |

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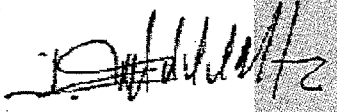
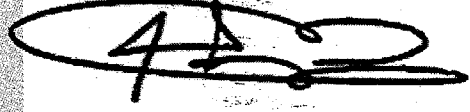
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This is to certify that the product described here has been manufactured, sampled, tested, and inspected in accordance with purchaser order requirements. This certificate is not a declaration of origin nor may it be used as a declaration of origin.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

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