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|--------------------------------------|------------------|----------------|
| CERTIFICADO DE PRUEBAS EN FABRICA | Number / Número: | Page / Página: |
| CERTIFICADO DE PRUEBAS EN FABRICA | 12077183 | 1 / 6 |
| Date / Día: November 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: 182238/01 |
| 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: 14.000 X 0.75 INCH 355.6 X 19.1 MM | Schedule / Cédula: 080 | Length / Longitud: 19.69 / 21.33 FT 6.00 / 6.50 MTS | Quantity / Cantidad: 4 Pcs/Pz 82.776 FT 8783.224 LB 25.230 MTS 3984.000 KG | Nominal Weight / Peso Nominal: 106.23 LB/FT 158.49 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. | 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: -- | Req. Max. -- | Lo | Min. | Obt. | |
| | | | | | | | | | | | | | | | mm |
| 58935 | 60537 | B | AM | Ss | L | 38.06 X 18.75 | 713,63 | RT | 319 | 510 | 0,63 | 2 | 31.8 | 45.0 | |
| 62066 | 62366 | B | AM | Ss | L | 38.13 X 18.87 | 719,51 | RT | 304 | 519 | 0,59 | 2 | 31.8 | 48.0 | |

| | | | |
|--|--|---|--|
| 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 | | | | | | |
| | | 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° Colada N° | Sample N° Muestra N° | P | Max | 28 | 120 | -- | 40 | 15 | 30 | 30 | 400 | 80 | 400 | -- | -- | -- | -- | -- | 6 | 100 | 15 | | |
| | | | Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| 58935 | 00001 | H | 20 | 84 | 20 | 8 | 3.2 | 3.6 | 14 | 50 | 0 | 117 | 22 | 9 | 4 | 0 | 0 | 19 | 0 | 59 | 0 | 27.9 | 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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Page / Página:
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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 | |
| | | Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | | P Max | 28 | 120 | -- | 40 | 15 | 30 | 30 | 400 | 80 | 400 | -- | -- | -- | -- | -- | -- | -- | 6 | 100 | 15 | |
| | | Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 58935 | 60537 | P | 20 | 85 | 20 | 8 | 3.1 | 3.6 | 13 | 50 | 0 | 119 | 23 | 10 | 4 | 0 | 0 | 20 | 0 | 59 | 0 | 28 | 0 |
| 58935 | 60538 | P | 20 | 85 | 20 | 8 | 3.1 | 3.4 | 13 | 50 | 0 | 119 | 23 | 10 | 4 | 0 | 0 | 19 | 0 | 59 | 0 | 28 | 0 |
| 62066 | 00001 | H | 18 | 85 | 20 | 9 | 7 | 1.6 | 8 | 60 | 0 | 117 | 23 | 8 | 4 | 0 | 0 | 14 | 0 | 72 | 0 | 33.7 | 0 |
| 62066 | 62366 | P | 21 | 84 | 19 | 9 | 7 | 0.6 | 8 | 60 | 0 | 116 | 23 | 8 | 4 | 0 | 0 | 13 | 0 | 72 | 0 | 33.6 | 0 |
| 62066 | 62367 | P | 21 | 83 | 19 | 9 | 7 | 0.8 | 8 | 60 | 0 | 117 | 23 | 8 | 4 | 0 | 0 | 13 | 0 | 72 | 0 | 33.7 | 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

| Heat N° Colada N° | Sample N° Muestra N° | Specimen condition: Ls Sc | Individuals / Individuales | | | Average / Promedio | | | Hardness type HRC | | | | | | | | | |
|----------------------|-------------------------|-----------------------------------|----------------------------|-----------|---------|--------------------|---------|---------|-------------------|------|------|------|------|------|------|------|------|-----|
| | | | Min: -- | Max: 22.0 | Var: -- | Min: -- | Max: -- | Var: -- | Type of hardness | | | ID | | | Var. | | | |
| | | | | | | OD | | | MW | | | | | | | | | |
| 58935 | 60537 | B | AM | 1 | HRBW | 80.1 | 79.9 | 79.5 | 79.8 | 80.5 | 80.5 | 80.8 | 80.6 | 81.1 | 80.7 | 81.0 | 80.9 | 1.1 |
| 58935 | 60538 | B | AM | 1 | HRBW | 79.3 | 79.5 | 79.4 | 79.4 | 78.8 | 79.8 | 79.6 | 79.4 | 79.2 | 79.2 | 78.6 | 79.0 | 0.4 |

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THROUGH WALL HARDNESS / DUREZA EN EL ESPESOR

| Required values | | Individuals / Individuales | | | | Average / Promedio | | | | Hardness type HRC | | | | | | | | |
|----------------------|-------------------------|----------------------------|----|-----------|-----------------|--------------------|------|---------|------|-------------------|------|----------------|------|------|------|------|------|------|
| Valores requeridos | | Min: -- | | Max: 22.0 | | Min: -- | | Max: -- | | Var: -- | | Tipo de dureza | | | | | | |
| 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. |
| 62066 | 62366 | B | AM | 1 | HRBW | 79.8 | 78.2 | 79.7 | 79.2 | 80.0 | 78.9 | 80.0 | 79.6 | 79.8 | 79.3 | 79.8 | 79.6 | 0.4 |
| 62066 | 62367 | B | AM | 1 | HRBW | 78.0 | 79.9 | 78.8 | 78.9 | 79.1 | 79.2 | 79.7 | 79.3 | 79.8 | 80.0 | 79.0 | 79.6 | 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 |
| 58935 | 60537 | Good / Bueno | 62066 | 62366 | Good / Bueno |

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HYDROSTATIC TEST / PRUEBA HIDRAULICA

| Pressure / Presión | | Time / Tiempo | Results / Resultado |
|--------------------|---------------|--------------------|------------------------------|
| Unit / Unidad. | Value / Valor | Seconds / Segundos | |
| psi | 2,970 | 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 / INFORMACIÓN 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: 308363 | 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: 308363 |
|---|--|

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) | |
| 58935 | 3 | 61.58 | 18.77 | 2.969 | 62066 | 1 | 21.19 | 6.46 | 1.015 |

| Average length per pipe Longitud promedio por tubo | | Nominal weight per pipe Peso nominal por tubo | |
|---|-------|--|---------|
| (ft) | (m) | (lb/ft) | (kg/m) |
| 20.693 | 6.308 | 106.116 | 157.907 |

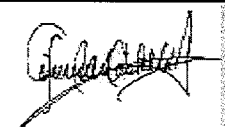
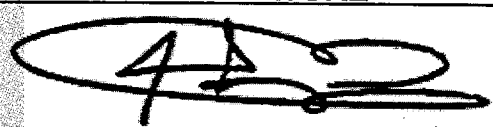
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This is to certify that the product described here has been manufactured, sampled, tested, and inspected in accordance with purchaser order requirements. This certificate is not a declaration of origin nor may it be used as a declaration of origin.
 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 COMPAÑÍA DE INSPECCIÓN Company Name: N/A Employee Name: N/A |  QUALITY CERTIFICATION DEPT. DEPTO. DE CERTIFICACIÓN DE CALIDAD Teresa M. Castellá Abraham |  CHIEF OF QUALITY CERTIFICATION DEPT. RESPONSABLE DEL DEPTO. DE CERTIFICACIÓN DE CALIDAD Ricardo Lozano Armenta |

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