

CERTIFICADO DE PRUEBAS EN FABRICA
CERTIFICADO DE PRUEBAS EN FABRICA

Number / Número:

Page / Página:

12073455

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Date / Día: **October 28, 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: 187812/02 | |
| 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: 10.750 X 0.365 INCH 273.1 X 9.3 MM | Schedule / Cédula: 040 | Length / Longitud: 19.69 / 21.33 FT 6.00 / 6.50 MTS | Quantity / Cantidad: 20 Pcs/Pz 419.948 FT 17032.928 LB 128.000 MTS 7726.000 KG | | Nominal Weight / Peso Nominal: 40.52 LB/FT 60.50 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. Req. Max. | Elongation / Alargamiento | | | | |
|----------------------|-------------------------|---|----|--------------|-----|--|-----------------|---------------------------|---------------------|---------------------|----------------|----|--------------------------|---------------------------|------|----|---|---|
| | | Ls | Sc | Type Tipo | Ori | Size Tamaño | Area Sección | | Min: 290 Max: -- | Min: 415 Max: -- | -- | Lo | | Min. | Obt. | in | % | % |
| | | | | | | | | | | | | | | | | | | |
| 61762 | 72468 | B | AM | Ss | L | 37.95 X 09.68 | 367,36 | RT | 323 | 484 | 0,67 | 2 | 27,8 | 41,0 | | | | |
| 62432 | 72476 | B | AM | Ss | L | 37.97 X 09.18 | 348,56 | RT | 314 | 493 | 0,64 | 2 | 27,5 | 41,0 | | | | |
| 62443 | 72474 | B | AM | Ss | L | 38.08 X 09.37 | 356,81 | RT | 333 | 499 | 0,67 | 2 | 27,7 | 41,0 | | | | |

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

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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 | |
| | 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° | P | Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 61762 | 00001 | H | 16 | 66 | 29 | 9 | 6.8 | 0.2 | 10 | 60 | 0 | 141 | 22 | 9 | 4 | 0 | 0 | 15 | 0 | 45 | 0 | 35.9 | 0 |
| 61762 | 72468 | P | 17 | 66 | 29 | 9 | 6.9 | 0.4 | 10 | 60 | 0 | 135 | 22 | 9 | 3 | 0 | 0 | 10 | 0 | 45 | 0 | 35.4 | 0 |
| 61762 | 72469 | P | 17 | 66 | 29 | 9 | 6.9 | 0.5 | 10 | 60 | 0 | 137 | 23 | 9 | 3 | 0 | 0 | 12 | 0 | 45 | 0 | 35.6 | 0 |
| 62432 | 00001 | H | 17 | 68 | 29 | 5 | 2.9 | 1.4 | 11 | 30 | 0 | 55 | 20 | 6 | 2 | 0 | 0 | 15 | 0 | 67 | 0 | 16.4 | 0 |
| 62432 | 72476 | P | 17 | 69 | 30 | 5 | 2.9 | 1.2 | 11 | 30 | 0 | 57 | 20 | 6 | 2 | 0 | 0 | 11 | 0 | 67 | 0 | 16.6 | 0 |
| 62432 | 72477 | P | 18 | 68 | 30 | 5 | 2.8 | 1 | 11 | 30 | 0 | 57 | 20 | 5 | 2 | 0 | 0 | 13 | 0 | 67 | 0 | 16.5 | 0 |
| 62443 | 00001 | H | 16 | 69 | 29 | 12 | 6.1 | 1 | 11 | 50 | 0 | 135 | 22 | 7 | 3 | 0 | 0 | 12 | 0 | 54 | 0 | 36.6 | 0 |
| 62443 | 72474 | P | 17 | 69 | 30 | 12 | 6.1 | 1 | 11 | 50 | 0 | 134 | 23 | 7 | 4 | 0 | 0 | 9 | 0 | 54 | 0 | 36.5 | 0 |
| 62443 | 72475 | P | 17 | 70 | 30 | 12 | 6.1 | 1.1 | 11 | 50 | 0 | 135 | 23 | 7 | 4 | 0 | 0 | 9 | 0 | 54 | 0 | 36.6 | 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

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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. | | |
| 61762 | 72468 | B | AM | 1 | HRBW | 77.9 | 76.1 | 76.9 | 77.0 | 77.0 | 76.1 | 76.2 | 76.4 | 76.2 | 77.8 | 77.8 | 77.8 | 77.3 | 0.8 |
| 61762 | 72469 | B | AM | 1 | HRBW | 76.0 | 76.0 | 76.8 | 76.3 | 78.0 | 76.0 | 76.2 | 76.7 | 78.0 | 77.8 | 78.0 | 77.9 | 1.7 | |
| 62432 | 72476 | B | AM | 1 | HRBW | 75.0 | 76.0 | 75.1 | 75.4 | 78.0 | 76.8 | 77.7 | 77.5 | 77.8 | 77.0 | 76.9 | 77.2 | 2.1 | |
| 62432 | 72477 | B | AM | 1 | HRBW | 76.0 | 76.9 | 78.0 | 77.0 | 78.1 | 76.2 | 76.8 | 77.0 | 76.0 | 77.8 | 76.0 | 76.6 | 0.4 | |
| 62443 | 72474 | B | AM | 1 | HRBW | 76.8 | 77.7 | 77.7 | 77.4 | 77.0 | 78.0 | 78.1 | 77.7 | 77.2 | 77.8 | 77.7 | 77.6 | 0.3 | |
| 62443 | 72475 | B | AM | 1 | HRBW | 77.2 | 77.9 | 79.9 | 78.3 | 78.0 | 78.0 | 78.0 | 79.0 | 78.1 | 78.0 | 78.4 | 0.4 | | |

| | | | |
|--|--|---|--|
| 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: | | | Standard / Norma: | | |
|----------------------|-------------------------|---------------------|----------------------|-------------------------|---------------------|----------------------|-------------------------|---------------------|
| Heat N° Colada N° | Sample N° Muestra N° | Result Resultado | Heat N° Colada N° | Sample N° Muestra N° | Result Resultado | Heat N° Colada N° | Sample N° Muestra N° | Result Resultado |
| 61762 | 72468 | Good / Bueno | 62432 | 72476 | Good / Bueno | 62443 | 72474 | Good / Bueno |

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HYDROSTATIC TEST / PRUEBA HIDRAULICA

| Pressure / Presión | | Time / Tiempo | Results / Resultado |
|--------------------|---------------|--------------------|------------------------------|
| Unit / Unidad. | Value / Valor | Seconds / Segundos | |
| psi | 2,430 | 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-Maquina 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: 302931

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: 302931

SUMMARY REPORT / REPORTE RESUMEN

| Heat N° Colada N° | Quantity Cantidad (Pieces) | Length Longitud | | Weight Peso (Tons) |
|----------------------|----------------------------------|--------------------|-------|--------------------------|
| | | (ft) | (m) | |
| 61762 | 2 | 42.65 | 13 | 0.782 |
| 62432 | 8 | 167.72 | 51.12 | 3.081 |

| Heat N° Colada N° | Quantity Cantidad (Pieces) | Length Longitud | | Weight Peso (Tons) |
|----------------------|----------------------------------|--------------------|-------|--------------------------|
| | | (ft) | (m) | |
| 62443 | 10 | 209.58 | 63.88 | 3.863 |

| Average length per pipe Longitud promedio por tubo | | Nominal weight per pipe Peso nominal por tubo | |
|---|-----|--|--------|
| (ft) | (m) | (lb/ft) | (kg/m) |
| 20.998 | 6.4 | 40.559 | 60.359 |

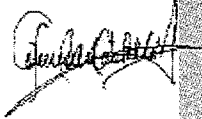

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| | |
|--|---|
| This is to certify that the product described here has been manufactured, sampled, tested, and inspected in accordance with purchaser order requirements. This certificate is not a declaration of origin nor may it be used as a declaration 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 NO APLICA 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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