

CERTIFICADO DE PRUEBAS EN FABRICA

Number / Número: **08064379**
 Page / Página: **1 / 6**

Date / Día: **Nov 26, 2008**

| | | | | |
|--|---------------------------------|--|--|---|
| Customer / Cliente: PLESA ANAHUAC Y CIAS, S.A. DE C.V. | | Customer's Order / Orden Cliente - Item N° | Customer's Reference/Referencia del cliente | Manufacturer's Works Order N° / Confirmación de Venta 117197/04 |
| Manufacture Process / Proceso de fabricación. SEAMLESS HOT ROLLED LAMINADO EN CALIENTE SIN COSTURA | | Product Type / Tipo de producto. LINE PIPE SEAMLESS CONDUCCION | | Surface / Superficie. VARNISHED BARNIZADO |
| Standard or Specification / Normas o especificaciones. API 5L/ASTM A106/ASME SA106/ASTM A53 | | | Steel Grade / Grado de acero. B/X42 PSL1 | Ends / Extremos. PLAIN END LISO CORTE RECTO |
| Dimensions / Dimensiones. 1.90 X 0.145 INCH 48.30 X 3.70 MM | Schedule / Cedula 040 | Length / Longitud. 19.70 / 21.30 FT 6.00 / 6.50 MTS | Quantity / Cantidad. 101 Pcs/pz | Nominal Weight / Peso Nominal 2.72 LB/FT 4.07 KG/M |

TENSILE TEST / ENSAYOS 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. de ensayo | Y.S. Unit / Unidad | | Y.S. / U.T.S. Rec Max | Elongation Alargamiento |
|----------------------|-------------------------|---|--------------|-----|----------------|--|--|------------------------------|--|------|-------------------------------------|----------------------------|
| | | Ls | Type Tipo | Ori | Size Tamaño | mm | KG/MM2 | | KG/MM2 | | | |
| | | | | | | | Required/Requerido TMin: TMax: LMin: LMax: | | Required/Requerido TMin: TMax: LMin: LMax: | | | |
| | | | | | | | °C | | | | % in 2 inches Min.: Obt. % | |
| 27614 | 639149 | B | Ss | L | 18.80 X 3.74 | | RT | 42.7 | 55.7 | 0.77 | 30.70 | |
| 27614 | 639150 | B | Ss | L | 18.96 X 3.66 | | RT | 42.0 | 55.2 | 0.76 | 30.20 | |
| 27614 | 639151 | B | Ss | L | 18.88 X 3.71 | | RT | 42.4 | 55.8 | 0.76 | 32.70 | |
| 27614 | 639152 | B | Ss | L | 19.07 X 3.67 | | RT | 41.6 | 54.4 | 0.76 | 30.50 | |
| 27614 | 639153 | B | Ss | L | 18.99 X 3.49 | | RT | 43.2 | 56.0 | 0.77 | 30.20 | |
| 28402 | 645133 | B | Ss | L | 19.02 x 3.59 | | RT | 41.6 | 54.4 | 0.77 | 31.30 | |
| 28402 | 645134 | B | Ss | L | 19.11 x 3.91 | | RT | 38.6 | 50.7 | 0.76 | 30.50 | |
| 28402 | 645135 | B | Ss | L | 19.01 x 3.69 | | RT | 41.1 | 52.4 | 0.79 | 29.90 | |
| 28402 | 645136 | B | Ss | L | 19.11 x 3.67 | | RT | 41.6 | 53.8 | 0.77 | 30.40 | |
| 28402 | 645137 | B | Ss | L | 19.01 x 3.57 | | RT | 42.4 | 54.8 | 0.77 | 31.20 | |
| 28402 | 646396 | B | Ss | L | 19.20 x 3.30 | | RT | 43.9 | 57.1 | 0.77 | 31.70 | |

| | | | |
|--|--|--|---|
| Ls: Location of the sample / Localización de la muestra L: Longitudinal / Longitudinal Req. Max: Maximum Required / Máximo Requerido LMax: Longitudinal Maximum / Máximo Longitudinal | B: Body / Cuerpo RT: Room Temperature / Temperatura Ambiente Obt: Obtained / Obtenido TMin: Transverse Minimum / Mínimo Transversal | Ss: Strip specimen / Rectangular EUL: Extension Under Load Method Y.S.: Yield Strength / Fluencia TMax: Transverse Maximum / Máximo Transversal | Ori: Orientation / Orientación UTS: Ultimate Tensile Strength / Resistencia LMin: Longitudinal Minimum / Mínimo Longitudinal Min: Minimum / Mínimo |
|--|--|--|---|

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.

Este certificado se emite mediante sistema computarizado y es validado con firma electrónica. El certificado original posee impreso el logo Tenaris color verde. En caso de que el poseedor del certificado entregue una copia, deberá garantizar la conformidad con el original haciéndose responsable por cualquier uso ilegal o indebido. Cualquier alteración y/o falsificación estará sujeta a la ley.

CERTIFICADO DE PRUEBAS EN FABRICA

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| Dimensions / Dimensiones. 1.90 X 0.145 INCH 48.30 X 3.70 MM | Schedule / Cédula 040 | Length / Longitud. 19.70 / 21.30 FT 6.00 / 6.50 MTS | Quantity / Cantidad. 101 Pcs/pz | Nominal Weight / Peso Nominal 2.72 LB/FT 4.07 KG/M |

HARDNESS TEST / ENSAYOS DE DUREZA SUPERFICIAL HARDNESS / DUREZA SUPERFICIAL

| Heat N° Colada N° | Sample N° Muestra N° | Ls | External / Externa | |
|----------------------|-------------------------|----|-----------------------------|------------------|
| | | | Unit / Unidad: Req. Min: | BHN Req. Max. |
| 27614 | 639149 | B | | 119 |
| 27614 | 639150 | B | | 120 |
| 27614 | 639151 | B | | 121 |
| 27614 | 639152 | B | | 119 |
| 27614 | 639153 | B | | 121 |
| 28402 | 645133 | B | | 141 |
| 28402 | 645134 | B | | 138 |
| 28402 | 645135 | B | | 132 |
| 28402 | 645136 | B | | 148 |
| 28402 | 645137 | B | | 146 |
| 28402 | 646396 | B | | 125 |

Ls: Location of the sample / Localización de la muestra B: Body / Cuerpo Req: Required / Requerido Min: Minimum / Mínimo
 Max: Maximum / Máximo

TECHNOLOGICAL TEST / ENSAYOS TECNOLÓGICOS

| Heat N° Colada N° | Sample N° Muestra N° | Bend Test Ensayo de Curvado |
|----------------------|-------------------------|--------------------------------|
| 27614 | 639149 | GOOD/BUENO |
| 27614 | 639150 | GOOD/BUENO |
| 27614 | 639151 | GOOD/BUENO |

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TECHNOLOGICAL TEST / ENSAYOS TECNOLÓGICOS

| Heat N° Colada N° | Sample N° Muestra N° | Bend Test Ensayo de Curvado |
|----------------------|-------------------------|--------------------------------|
| 27614 | 639152 | GOOD/BUENO |
| 27614 | 639153 | GOOD/BUENO |
| 28402 | 645133 | GOOD/BUENO |
| 28402 | 645134 | GOOD/BUENO |
| 28402 | 645135 | GOOD/BUENO |
| 28402 | 645136 | GOOD/BUENO |
| 28402 | 645137 | GOOD/BUENO |
| 28402 | 646396 | GOOD/BUENO |

CHEMICAL COMPOSITION / COMPOSICIÓN QUÍMICA

| | | Composition % / Composición % | | | | | | | | | | | | | | | | | | |
|-------------------------|---|-------------------------------|-----|-----|-----|-----|-----|--------|-----|-----|-----|-----|-----|---------|-----|-----|-----|-----|-----|-----|
| | | C | Mn | Si | Cr | Mo | S | P | Ni | V | Cu | Al | Sn | As | Nb | Ti | Ca | B | N | |
| | | X 100 | | | | | | X 1000 | | | | | | X 10000 | | | | | | |
| Heat Colada | H | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| Sample N° Muestra N° | P | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| 27614 | H | 16 | 109 | 24 | 4 | 4 | 1 | 9 | 35 | 2 | 55 | 22 | 8 | 4 | 2 | 3 | 10 | 1 | 49 | |
| 639149 | P | 16 | 109 | 24 | 5 | 3 | 1 | 10 | 37 | 1 | 57 | 20 | 8 | 3 | 3 | 3 | 10 | 1 | 49 | |
| 639149 | P | 16 | 108 | 23 | 5 | 2 | 1 | 10 | 37 | 1 | 53 | 20 | 7 | 3 | 2 | 3 | 10 | 1 | 49 | |
| 639150 | P | 16 | 108 | 25 | 5 | 3 | 1 | 8 | 37 | 1 | 55 | 20 | 9 | 3 | 1 | 4 | 10 | 1 | 50 | |
| 639150 | P | 16 | 109 | 24 | 5 | 3 | 1 | 10 | 37 | 1 | 55 | 20 | 8 | 3 | 3 | 3 | 10 | 1 | 49 | |
| 639151 | P | 16 | 108 | 25 | 5 | 3 | 1 | 10 | 37 | 1 | 58 | 21 | 8 | 3 | 1 | 4 | 10 | 1 | 51 | |

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CHEMICAL COMPOSITION / COMPOSICIÓN QUÍMICA

Composition % / Composición %

| | | Composition % / Composición % | | | | | | | | | | | | | | | | | | |
|------------|-------|-------------------------------|-----|----|----|----|-----|--------|----|---|----|----|----|----|----|----|----|---|---------|--|
| | | C | Mn | Si | Cr | Mo | S | P | Ni | V | Cu | Al | Sn | As | Nb | Ti | Ca | B | N | |
| | | X 100 | | | | | | X 1000 | | | | | | | | | | | X 10000 | |
| Heat | H Max | | | | | | | | | | | | | | | | | | | |
| Coilada | Min | | | | | | | | | | | | | | | | | | | |
| Sample N° | P Max | | | | | | | | | | | | | | | | | | | |
| Muestra N° | Min | | | | | | | | | | | | | | | | | | | |
| 639151 | P | 16 | 108 | 25 | 5 | 3 | 1 | 10 | 37 | 1 | 56 | 21 | 8 | 3 | 3 | 3 | 10 | 1 | 49 | |
| 639152 | P | 16 | 107 | 24 | 5 | 3 | 1 | 9 | 38 | 1 | 57 | 22 | 8 | 3 | 2 | 4 | 10 | 1 | 49 | |
| 639152 | P | 16 | 107 | 24 | 5 | 2 | 1 | 10 | 37 | 1 | 55 | 20 | 8 | 3 | 2 | 3 | 10 | 1 | 47 | |
| 639153 | P | 16 | 108 | 25 | 5 | 3 | 1 | 9 | 37 | 1 | 55 | 20 | 8 | 3 | 2 | 3 | 11 | 1 | 48 | |
| 639153 | P | 17 | 108 | 24 | 5 | 3 | 1 | 10 | 37 | 1 | 55 | 20 | 8 | 3 | 3 | 3 | 10 | 1 | 50 | |
| 28402 | H | 16 | 113 | 26 | 3 | 2 | 1 | 9 | 24 | 1 | 34 | 27 | 4 | 3 | 1 | 3 | 12 | 1 | 51 | |
| 645133 | P | 16 | 111 | 25 | 4 | 1 | 1.5 | 9 | 22 | 1 | 33 | 26 | 4 | 2 | 3 | 4 | 11 | 1 | 51 | |
| 645133 | P | 16 | 111 | 25 | 4 | 1 | 1.4 | 8 | 22 | 1 | 33 | 26 | 4 | 2 | 1 | 4 | 13 | 1 | 52 | |
| 645134 | P | 16 | 111 | 26 | 4 | 1 | 1.6 | 8 | 22 | 1 | 33 | 28 | 5 | 2 | 1 | 4 | 12 | 1 | 51 | |
| 645134 | P | 16 | 111 | 25 | 4 | 1 | 1.8 | 9 | 22 | 1 | 32 | 25 | 4 | 1 | 2 | 4 | 11 | 1 | 51 | |
| 645135 | P | 16 | 111 | 26 | 4 | 1 | 1.7 | 8 | 22 | 1 | 33 | 27 | 4 | 1 | 3 | 4 | 12 | 1 | 52 | |
| 645135 | P | 16 | 111 | 25 | 4 | 1 | 1.8 | 9 | 22 | 1 | 32 | 26 | 4 | 1 | 1 | 4 | 12 | 1 | 52 | |
| 645136 | P | 16 | 111 | 26 | 4 | 1 | 1.6 | 9 | 22 | 1 | 33 | 29 | 4 | 2 | 3 | 4 | 13 | 1 | 51 | |
| 645136 | P | 16 | 111 | 25 | 4 | 1 | 1.5 | 8 | 22 | 1 | 33 | 26 | 4 | 2 | 2 | 4 | 12 | 1 | 51 | |
| 645137 | P | 16 | 111 | 25 | 4 | 1 | 1.8 | 9 | 22 | 1 | 31 | 25 | 4 | 1 | 1 | 4 | 12 | 1 | 51 | |
| 645137 | P | 16 | 111 | 26 | 4 | 1 | 1.8 | 8 | 22 | 1 | 34 | 28 | 4 | 2 | 3 | 4 | 15 | 1 | 51 | |
| 646396 | P | 16 | 111 | 25 | 4 | 1 | 1 | 9 | 22 | 1 | 36 | 28 | 4 | 2 | 3 | 4 | 14 | 1 | 54 | |

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CHEMICAL COMPOSITION / COMPOSICIÓN QUÍMICA

| | | Composition % / Composición % | | | | | | | | | | | | | | | | | |
|---------------|----------|-------------------------------|------------|-----------|----------|----------|------------|----------|-----------|----------|-----------|-----------|----------|----------|----------|----------|-----------|----------|-----------|
| | | C | Mn | Si | Cr | Mo | S | P | Ni | V | Cu | Al | Sn | As | Nb | Ti | Ca | B | N |
| | | X 100 | | | | | | X 1000 | | | | | | X 10000 | | | | | |
| Heat | H Max | | | | | | | | | | | | | | | | | | |
| Colada | Min | | | | | | | | | | | | | | | | | | |
| Sample N° | P Max | | | | | | | | | | | | | | | | | | |
| Muestra N° | Min | | | | | | | | | | | | | | | | | | |
| 646396 | P | 16 | 110 | 24 | 4 | 1 | 1.8 | 9 | 22 | 1 | 33 | 25 | 3 | 1 | 1 | 4 | 11 | 1 | 50 |

H: Heat / Colada P: Product / Producto Max: Maximum / Máximo Min: Minimum / Mínimo

SUPPLEMENTARY INFORMATION / INFORMACIÓN SUPLEMENTARIA

FABRICADO POR TENARIS SIDERCA
 LA PRÁCTICA DE AFINO EN EL HORNO - CUCHARA INCLUYE UNA INYECCIÓN FINAL DE UNA VARILLA DE SILICIURO DE CALCIO PARA OBTENER UNA FORMA GLOBULAR DE EVENTUALES MICROINCLUSIONES.
 MATERIAL LIBRE DE CONTAMINACIÓN DE MERCURIO.
 FABRICACIÓN DE TUBO: LAMINADO EN CALIENTE Y SIN COSTURA.
 CONTROL VISUAL Y DIMENSIONAL: SATISFACTORIO.
 NO REPARADO POR SOLDADURA.
 EL MATERIAL CUMPLE CON LA NORMA NACE MR 01-75 ULTIMA EDICION
 EDICION DE LA NORMA : ASME SA 106/01.
 EDICION DE LA NORMA : ASME SA 53/01 Addendum 2003.
 EDICION DE LA NORMA: API 5L, 43° Edition 2004.
 EDICION DE LA NORMA : ASTM A106/04b.
 EDICION DE LA NORMA: ASTM A53/2005
 EDICION DE LA NORMA : ISO 15156-2/2003.

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SUPPLEMENTARY INFORMATION / INFORMACIÓN SUPLEMENTARIA

TRATAMIENTO TÉRMICO: DIRECTO DE LAMINACIÓN.
 CONTROL NO DESTRUCTIVO TUBO (C.N.D.): SATISFACTORIO.
 MÉTODO INSPECCIÓN: E.M.I. "FULL LENGTH" LONG. (EXT.) NOTCH 12.5%.
 PRESION DE PRUEBA HIDRAULICA: 3000 PSI, 5 SEG.
 TAMSА REF: 843261

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.



Quality System Certified
N° 110950

TENARIS QUALITY DEPARTMENT SIGNATURE



QUALITY CERTIFICATION DEPT.
 DEPTO. DE CERTIFICACIÓN DE CALIDAD
 DE LA CRUZ MARTINEZ ISRAEL



CHIEF OF QUALITY CERTIFICATION DEPT.
 RESPONSABLE DEL DEPTO. DE CERTIFICACIÓN DE CALIDAD
 JUAN FRANCISCO RENATO AVILA ALDAPA

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