



# Tenaris

## CERTIFICADO DE PRUEBAS EN FABRICA

Number / Número  
08060254

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Date / Dia: **NOV 06, 2008**

Tubos de Acero de Mexico, S.A.  
Carret. Mexico Veracruz Km 433.7 SN  
Delfino Valenzuela Teleria, Veracruz, Veracruz  
C.P. 91697 MEXICO  
(52) 229 989 1100 tel  
(52) 229 989 1600 fax

|   |   |  |   |
|---|---|--|---|
| Customer / Cliente: PLESA ANAHUAC Y CIA S, 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: 11673301 |
| Manufacture Process / Proceso de fabricación: SEAMLESS HOT ROLLED                           | Product Type / Tipo de producto: LINE PIPE SEAMLESS | Quantity / Cantidad: B/X 42 PSL1             | Surface / Superficie: VARNISHED                                 |
| LAMINADO EN CALIENTE SIN COSTURA  | CONDUCCION  | Quantity / Cantidad: 171 Pcs/pz              | BARNIZADO   |
| Standard or Specification / Normas o especificaciones: API 5L/ASTM A106/ASME SA106/ASTM A53 | Steel Grade / Grado de acero: B/X 42 PSL1           | Req. Max:                                    | Ends / Extremos: NORMAL BEVEL                                   |
| Dimensions / Dimensiones: 2 3/8 X 0 154 INCH  | Schedule / Cedula: 040                              | Req. Min:                                    | BISELADO NORMAL   |
| 60 30 X 3 90 MM   | Length / Longitud: 19 70 / 21 30 FT                 | Req. Obl.:                                   | Nominal Weight / Peso Nominal: 3 65 L.B/F.T                     |
|   | 6 00 / 6 50 MTS                                     | Req. %:                                      | 5 42 KG/M   |

### TENSILE TEST / ENSAYOS DE TENSION

| Heat N°<br>Colada N°<br>Muestra N° | Sample N° | Specimen condition<br>Condición de la probeta |           |     | Specimen dimensions<br>Dimensiones de la probeta |                      | Test Temp. de ensayo °C | Y.S.                 |               | U.T.S. | Y.S. / U.T.S. | Req. Max | Elongation, Alargamiento |
|------------------------------------|-----------|---|-----------|-----|--|----------------------|-------------------------|----------------------|---------------|--------|---------------|----------|--------------------------|
|                                    |           | Ls  | Type Tipo | Ort | Size Tamaño                                      | Unit / Unidad KG/MM2 |                         | Unit / Unidad KG/MM2 | % in 2 inches |        |               |          |                          |
| 27178                              | 636761    | B   | SS        | L   | 18.96 x 3.81                                     |                      | RT                      | 36.3                 | 51.9          | 0.70   |               | 29.50    |                          |
| 27178                              | 636762    | B   | SS        | L   | 19.41 x 3.82                                     |                      | RT                      | 37.4                 | 53.1          | 0.70   |               | 31.50    |                          |
| 27178                              | 636763    | B   | SS        | L   | 19.24 x 3.94                                     |                      | RT                      | 36.8                 | 52.4          | 0.70   |               | 29.50    |                          |
| 27178                              | 636764    | B   | SS        | L   | 19.04 x 3.97                                     |                      | RT                      | 36.5                 | 51.7          | 0.71   |               | 29.80    |                          |
| 27178                              | 636765    | B   | SS        | L   | 19.42 x 3.93                                     |                      | RT                      | 36.0                 | 52.5          | 0.69   |               | 34.40    |                          |
| 27180                              | 636773    | B   | SS        | L   | 19.06 x 3.95                                     |                      | RT                      | 33.3                 | 48.8          | 0.68   |               | 29.50    |                          |
| 27180                              | 636844    | B   | SS        | L   | 19.06 x 3.98                                     |                      | RT                      | 35.1                 | 51.4          | 0.68   |               | 29.40    |                          |
| 27180                              | 636845    | B   | SS        | L   | 19.22 x 3.87                                     |                      | RT                      | 35.1                 | 51.0          | 0.69   |               | 32.40    |                          |
| 27180                              | 636846    | B   | SS        | L   | 19.13 x 3.76                                     |                      | RT                      | 34.9                 | 50.5          | 0.69   |               | 29.20    |                          |
| 27180                              | 636847    | B   | SS        | L   | 19.20 x 3.67                                     |                      | RT                      | 35.9                 | 52.8          | 0.68   |               | 30.90    |                          |
| 28993                              | 649978    | B   | SS        | L   | 19.11 x 3.88                                     |                      | RT                      | 35.3                 | 51.5          | 0.69   |               | 29.40    |                          |
| 28993                              | 649979    | B   | SS        | L   | 19.12 x 3.92                                     |                      | RT                      | 36.1                 | 51.0          | 0.71   |               | 27.90    |                          |
| 28993                              | 649981    | B   | SS        | L   | 19.02 x 3.82                                     |                      | RT                      | 35.9                 | 52.8          | 0.68   |               | 31.20    |                          |
| 28993                              | 649982    | B   | SS        | L   | 19.05 x 3.85                                     |                      | RT                      | 35.7                 | 52.4          | 0.68   |               | 31.60    |                          |
| 28993                              | 649985    | B   | SS        | L   | 19.19 x 3.71                                     |                      | RT                      | 37.0                 | 54.1          | 0.68   |               | 31.00    |                          |

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 automatizado y es válido 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 no autorizado. Cualquier alteración y/o falsificación estará sujeta a la ley.

DICA 717 04 0



Tubos de Acero de México, S.A.  
 Carret, México Veracruz Km 433.7 SN  
 Delfino Valenzuela Tegería, Veracruz, Veracruz  
 C.P. 91697 MEXICO  
 (52) 229 989 1100 tel  
 (52) 229 989 1600 fax

### CERTIFICADO DE PRUEBAS EN FABRICA

Number / Número: 08060254  
 Page / Pagina: 2 / 7  
 Date / Dia: NOV 06, 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  |
| Manufacture Process / Proceso de fabricación:         | SEAMLESS HOT ROLLED<br>LAMINADO EN CALIENTE SIN COSTURA                          | Product Type / Tipo de producto:  | LINE PIPE SEAMLESS<br>CONDUCCION  | 116733/01  |
| Standard of Specification / Normas o especificaciones | API 5L/ASTM A106/ASME SA106/ASTM A53   | Steel Grade / Grado de acero:   | B/X42 PSL1  | Surface / Superficie<br>VARNISHED<br>BARNIZADO   |
| Dimensions / Dimensiones:                             | 2 3/8 X 0.154 INCH<br>60.30 X 3.90 MM  | Length / Longitud:  | 19.70 / 21.30 FT<br>6.00 / 6.50 MTS   | Ends / Extremos: NORMAL BEVEL<br>BISELAADO NORMAL  |
| Location of the sample / Localización de la muestra   | LT: Longitudinal / Longitudinal<br>Req. Max. Maximum Required / Máximo Requerido | RT: Room Temperature / Temperatura Ambiente<br>Obt: Obtained / Obtenido | ST: Strip specimen / Rectangular<br>EUL: Extension Under Load Method<br>Y.S.: Yield Strength / Fluencia | Orientation / Orientación<br>UTS: Ultimate Tensile Strength / Resistencia<br>LMN: Longitudinal Minimum / Mínimo Longitudinal<br>Min.: Minimum / Mínimo |
| Max. Longitudinal Maximum / Máximo Longitudinal       |  | TMN: Transverse Minimum / Mínimo Transversal                            | TMK: Transverse Maximum / Máximo Transversal  |  |

### HARDNESS TEST / ENSAYOS DE DUREZA SUPERFICIAL HARDNESS / DUREZA SUPERFICIAL

| Heat N°<br>Coidada N° | Sample N°<br>Muestra N° | LS | External / Externa          |                  |
|-----------------------|-------------------------|----|-----------------------------|------------------|
|                       |                         |    | Unit / Unidad:<br>Req. Min. | BHN<br>Req. Max. |
| 27178                 | 636761                  | B  |                             | 136              |
| 27178                 | 636762                  | B  |                             | 132              |
| 27178                 | 636763                  | B  |                             | 131              |
| 27178                 | 636764                  | B  |                             | 133              |
| 27178                 | 636765                  | B  |                             | 136              |
| 27180                 | 636773                  | B  |                             | 135              |
| 27180                 | 636844                  | B  |                             | 131              |
| 27180                 | 636845                  | B  |                             | 128              |
| 27180                 | 636846                  | B  |                             | 130              |
| 27180                 | 636847                  | B  |                             | 133              |
| 28993                 | 649978                  | B  |                             | 129              |
| 28993                 | 649979                  | B  |                             | 136              |
| 28993                 | 649981                  | B  |                             | 132              |
| 28993                 | 649982                  | B  |                             | 138              |

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

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DICA 777 04 0



# Tenaris

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 Carret. Mexico Veracruz Km 433.7 SN  
 Delfino Valenzuela Tejeria, Veracruz, Veracruz  
 C.P. 91697 MEXICO  
 (52) 229 989 1100 tel  
 (52) 229 989 1600 fax

|   |  |  |  |   |  |  |  |
|---|--|--|--|---|--|--|--|
| 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  |  |
| Manufacture Process / Proceso de fabricación: SEAMLESS HOT ROLLED |  | Product Type / Tipo de producto: LINE PIPE SEAMLESS CONDUCCION |  | Surface / Superficie: VARNISHED BARNIZADO   |  | Ends / Extremos: NORMAL BEVEL                          |  |
| LAMINADO EN CALIENTE SIN COSTURA                                  |  | API 5L/ASTM A106/ASME SA106/ASTM A53                           |  | Steel Grade / Grado de acero: B/X42 PSL1    |  | BISELADO NORMAL  |  |
| Standard or Specification / Normas o especificaciones:            |  | Schedule / Cadula: 040   |  | Quantity / Cantidad: 171 Pcs/pz             |  | Nominal Weight / Peso Nominal: 3.65 LB/FT<br>5.42 KG/M |  |
| Dimensions / Dimensiones: 2 3/8 X 0.154 INCH<br>60.30 X 3.90 MM   |  | Length / Longitud: 19.70 / 21.30 FT<br>6.00 / 6.50 MTS         |  |   |  |  |  |

### TECHNOLOGICAL TEST / ENSAYOS TECNOLÓGICOS

| Heat N°<br>Colada N° | Sample N°<br>Muestra N° | Bend Test<br>Ensayo de Curvado |
|----------------------|-------------------------|--------------------------------|
| 27178                | 636761                  | GOOD/BUENO                     |
| 27178                | 636762                  | GOOD/BUENO                     |
| 27178                | 636763                  | GOOD/BUENO                     |
| 27178                | 636764                  | GOOD/BUENO                     |
| 27178                | 636765                  | GOOD/BUENO                     |
| 27180                | 636773                  | GOOD/BUENO                     |
| 27180                | 636844                  | GOOD/BUENO                     |
| 27180                | 636845                  | GOOD/BUENO                     |
| 27180                | 636846                  | GOOD/BUENO                     |
| 27180                | 636847                  | GOOD/BUENO                     |
| 28993                | 649978                  | GOOD/BUENO                     |
| 28993                | 649979                  | GOOD/BUENO                     |
| 28993                | 649981                  | GOOD/BUENO                     |
| 28993                | 649982                  | GOOD/BUENO                     |

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DICCA 777 04 0



## CERTIFICADO DE PRUEBAS EN FABRICA

Number / Numero: **08060254**  
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 Date / Dia: **Nov 06, 2008**

Tubos de Acero de México, S.A.  
 Carret Mexico Veracruz Km 433.7 SN  
 DelFINO Valenzuela Tejeria, Veracruz, Veracruz  
 C.P. 91697 MEXICO  
 (52) 229 989 1100 tel  
 (52) 229 989 1600 fax

|   |  |  |  |
|---|--|--|--|
| 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° / Confirmation de Venta: 116733/01 |
| Manufacture Process / Proceso de fabricación: SEAMLESS HOT ROLLED | Product Type / Tipo de producto: LINE PIPE SEAMLESS CONDUCCION | Steel Grade / Grado de acero: B/X42 PSL1     | Surface / Superficie: VARNISHED                                  |
| LAMINADO EN CALIENTE SIN COSTURA                                  | API 5L/ASTM A106/ASME SA106/ASTM A53                           | Quantity / Cantidad: 1771 Pcs/pz             | BARNIZADO  |
| Standard or Specification / Normas o especificaciones:            | Schedule / Caeuia: 040   | Length / Longitud: 19.70 / 21.30 FT          | Ends / Extremos: NORMAL BEVEL                                    |
| Dimensions / Dimensiones: 2.318 X 0.154 INCH                      | Length / Longitud: 6.00 / 6.50 MTS                             | Quantity / Cantidad: 1771 Pcs/pz             | BISELAADO NORMAL   |
| 60.30 X 3.90 MM   |  |  | Nominal Weight / Peso Nominal: 3.65 LB/FT                        |
|   |  |  | 5.42 KG/M  |

### CHEMICAL COMPOSITION / COMPOSICIÓN QUIMICA

| Heat<br>Coilada<br>Sample N°<br>Muestra N° | H<br>P | C  | Mn  | X.100 |    |    |   | Ni  | V  | X.000 |    |    |    | Cu | Al | Sn | As | Nb | Ti | X.0000 |    |    |    |
|--|--------|----|-----|-------|----|----|---|-----|----|-------|----|----|----|----|----|----|----|----|----|--------|----|----|----|
|  |        |    |     | Si    | Cr | Mo | S |     |    | P     | NI | Cu | Al |    |    |    |    |    |    | Sn     | As | Nb | Ti |
| 27178                                      | H      | 16 | 108 | 25    | 3  | 1  | 1 | 10  | 22 | 1     | 31 | 23 | 5  | 1  | 1  | 1  | 3  | 10 | 1  | 31     |    |    |    |
| 636761                                     | P      | 16 | 108 | 25    | 3  | 1  | 1 | 10  | 22 | 1     | 32 | 23 | 5  | 2  | 1  | 1  | 3  | 10 | 1  | 32     |    |    |    |
| 636761                                     | P      | 16 | 107 | 24    | 3  | 1  | 1 | 10  | 22 | 1     | 33 | 21 | 5  | 1  | 1  | 1  | 3  | 10 | 1  | 35     |    |    |    |
| 636762                                     | P      | 16 | 108 | 24    | 3  | 1  | 1 | 10  | 22 | 1     | 32 | 21 | 5  | 1  | 1  | 1  | 3  | 10 | 1  | 35     |    |    |    |
| 636762                                     | P      | 16 | 107 | 24    | 3  | 1  | 1 | 10  | 22 | 1     | 33 | 21 | 5  | 1  | 1  | 1  | 3  | 10 | 1  | 36     |    |    |    |
| 636763                                     | P      | 16 | 108 | 24    | 3  | 1  | 1 | 10  | 22 | 1     | 32 | 21 | 5  | 1  | 1  | 1  | 3  | 10 | 1  | 33     |    |    |    |
| 636763                                     | P      | 16 | 107 | 24    | 3  | 1  | 1 | 10  | 22 | 1     | 32 | 21 | 5  | 1  | 1  | 1  | 3  | 10 | 1  | 29     |    |    |    |
| 636764                                     | P      | 16 | 108 | 24    | 3  | 1  | 1 | 10  | 22 | 1     | 32 | 21 | 5  | 2  | 1  | 1  | 3  | 10 | 1  | 37     |    |    |    |
| 636764                                     | P      | 16 | 108 | 24    | 3  | 1  | 1 | 10  | 22 | 1     | 33 | 22 | 5  | 1  | 1  | 1  | 3  | 10 | 1  | 33     |    |    |    |
| 636765                                     | P      | 16 | 108 | 24    | 3  | 1  | 1 | 10  | 22 | 1     | 32 | 21 | 5  | 1  | 1  | 1  | 3  | 10 | 1  | 30     |    |    |    |
| 636765                                     | P      | 16 | 108 | 24    | 3  | 1  | 1 | 10  | 22 | 1     | 32 | 21 | 5  | 2  | 1  | 1  | 3  | 10 | 1  | 33     |    |    |    |
| 27180                                      | H      | 16 | 107 | 26    | 2  | 1  | 1 | 2.3 | 10 | 15    | 17 | 28 | 3  | 1  | 1  | 1  | 3  | 21 | 1  | 22     |    |    |    |
| 636773                                     | P      | 16 | 107 | 26    | 2  | 1  | 1 | 2.3 | 10 | 15    | 16 | 27 | 3  | 1  | 1  | 1  | 3  | 21 | 1  | 20     |    |    |    |
| 636773                                     | P      | 16 | 107 | 25    | 2  | 1  | 1 | 2.3 | 10 | 15    | 19 | 27 | 3  | 1  | 1  | 1  | 3  | 21 | 1  | 25     |    |    |    |
| 636844                                     | P      | 16 | 107 | 26    | 2  | 1  | 1 | 2.3 | 10 | 15    | 19 | 27 | 3  | 1  | 1  | 1  | 3  | 21 | 1  | 24     |    |    |    |
| 636844                                     | P      | 16 | 107 | 26    | 2  | 1  | 1 | 2.3 | 10 | 15    | 17 | 28 | 3  | 1  | 1  | 1  | 3  | 21 | 1  | 24     |    |    |    |
| 636845                                     | P      | 16 | 107 | 26    | 2  | 1  | 1 | 2.3 | 10 | 15    | 19 | 26 | 3  | 1  | 1  | 1  | 3  | 21 | 1  | 24     |    |    |    |

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Date / Dia: Nov 06, 2008

Tubos de Acero de Mexico, S.A.  
Carret. Mexico Veracruz Km 433.7 SN  
Delfino Valenzuela Tejeria, Veracruz, Veracruz  
C.P. 91697 MEXICO  
(52) 229 989 1100 tel  
(52) 229 989 1600 fax

|  |   |   |                                  |  |                                     |  |                         |
|--|---|---|----------------------------------|--|-------------------------------------|--|-------------------------|
| Customer / Cliente:                                    | PLESA ANAHUAC Y CIA S, 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: | 116733/01               |
| Manufacture Process / Proceso de fabricación:          | SEAMLESS HOT ROLLED<br>LAMINADO EN CALIENTE SIN COSTURA | Product Type / Tipo de producto:            | LINE PIPE SEAMLESS<br>CONDUCCION |  |                                     | Surface / Superficie:                                  | VARNISHED               |
| Standard or Specification / Normas o especificaciones: | API 5L/ASTM A106/ASME SA106/ASTM A53                    |   |                                  |  |                                     | BARNIZADO  |                         |
| Dimensions / Dimensiones:                              | 2 3/8 X 0.154 INCH<br>60.30 X 3.90 MM                   | Schedule / Cedula:                          | 040                              | Length / Longitud:                           | 19.70 / 21.30 FT<br>6.00 / 6.50 MTS | Ends / Extremos:                                       | NORMAL BEVEL            |
|  |   |   |                                  | Steel Grade / Grado de acero:                | B/X42 PSL1                          | BISELADO NORMAL  |                         |
|  |   |   |                                  | Quantity / Cantidad:                         | 171 Pcs/pz                          | Normal Weight / Peso Nominal:                          | 3.65 LB/FT<br>5.42 KG/M |

### CHEMICAL COMPOSITION / COMPOSICIÓN QUÍMICA

| Heat / Colada | Sample N° / Muestra N° | H Max / Min | Mn  | Si | Cr | Mo | S   | P  | Ni | V | Composition % / Composición % |    |    |    |    |    |    |    |   |  |
|---------------|------------------------|-------------|-----|----|----|----|-----|----|----|---|-------------------------------|----|----|----|----|----|----|----|---|--|
|               |                        |             |     |    |    |    |     |    |    |   | Cu                            | Al | Sn | As | Nb | Ti | Ca | B  | N |  |
| 636845        | P                      | 16          | 107 | 26 | 2  | 1  | 2.3 | 10 | 15 | 1 | 19                            | 26 | 3  | 1  | 3  | 21 | 1  | 24 |   |  |
| 636846        | P                      | 16          | 107 | 26 | 2  | 1  | 2.3 | 10 | 15 | 1 | 20                            | 26 | 3  | 1  | 3  | 21 | 1  | 26 |   |  |
| 636846        | P                      | 16          | 107 | 26 | 2  | 1  | 2.3 | 10 | 15 | 1 | 19                            | 27 | 3  | 1  | 3  | 21 | 1  | 14 |   |  |
| 636847        | P                      | 16          | 107 | 26 | 2  | 1  | 2.3 | 10 | 15 | 1 | 18                            | 28 | 3  | 1  | 3  | 21 | 1  | 27 |   |  |
| 636847        | P                      | 16          | 107 | 26 | 2  | 1  | 2.3 | 10 | 15 | 1 | 19                            | 27 | 3  | 1  | 3  | 21 | 1  | 25 |   |  |
| 28993         | H                      | 17          | 109 | 24 | 4  | 2  | 1.1 | 14 | 40 | 1 | 46                            | 20 | 6  | 4  | 1  | 2  | 17 | 36 |   |  |
| 649978        | P                      | 17          | 109 | 24 | 5  | 1  | 0.9 | 15 | 23 | 1 | 44                            | 23 | 5  | 3  | 1  | 4  | 14 | 30 |   |  |
| 649978        | P                      | 16          | 108 | 24 | 5  | 1  | 1.2 | 15 | 24 | 1 | 45                            | 20 | 5  | 3  | 2  | 4  | 14 | 31 |   |  |
| 649979        | P                      | 17          | 110 | 25 | 5  | 1  | 0.7 | 13 | 23 | 1 | 45                            | 23 | 6  | 3  | 3  | 5  | 18 | 39 |   |  |
| 649979        | P                      | 17          | 109 | 24 | 5  | 1  | 0.9 | 14 | 24 | 1 | 46                            | 23 | 5  | 3  | 4  | 16 | 1  | 41 |   |  |
| 649981        | P                      | 16          | 108 | 24 | 5  | 1  | 1.3 | 15 | 24 | 1 | 43                            | 21 | 5  | 3  | 1  | 4  | 18 | 23 |   |  |
| 649981        | P                      | 16          | 108 | 24 | 5  | 1  | 1.1 | 14 | 24 | 1 | 43                            | 20 | 5  | 3  | 2  | 4  | 14 | 31 |   |  |
| 649982        | P                      | 16          | 109 | 24 | 5  | 1  | 1.4 | 15 | 24 | 1 | 44                            | 23 | 5  | 3  | 2  | 5  | 20 | 1  |   |  |
| 649982        | P                      | 16          | 108 | 24 | 5  | 1  | 1.5 | 15 | 24 | 1 | 44                            | 20 | 5  | 3  | 2  | 4  | 14 | 1  |   |  |
| 649985        | P                      | 16          | 108 | 24 | 5  | 1  | 1.2 | 15 | 23 | 1 | 44                            | 20 | 5  | 3  | 2  | 4  | 14 | 1  |   |  |
| 649985        | P                      | 17          | 108 | 24 | 5  | 1  | 1.2 | 15 | 23 | 1 | 44                            | 20 | 5  | 3  | 2  | 4  | 15 | 39 |   |  |
| 649985        | P                      | 17          | 108 | 23 | 5  | 1  | 1.2 | 16 | 24 | 1 | 44                            | 20 | 5  | 3  | 1  | 4  | 17 | 36 |   |  |

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

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## CERTIFICADO DE PRUEBAS EN FABRICA

|                                 |               |
|---------------------------------|---------------|
| Numero / Numero                 | Page / Pagina |
| 08060254                        | 6 / 7         |
| Date / Dia: <b>Nov 06, 2008</b> |               |

|  |  |   |   |
|--|--|---|---|
| Customer / Cliente: PLESA ANAHUAC Y CIA S. A. DE C.V.  | Customer's Order / Orden Cliente - Item N°                           | Customer's Reference/Referencia del cliente | Manufacturer's Works Order N° / Confirmacion de Venta     |
| Manufacture Process / Proceso de fabricacion:<br>SEAMLESS HOT ROLLED<br>LAMINADO EN CALIENTE SIN COSTURA | Product type / Tipo de producto:<br>LINE PIPE SEAMLESS<br>CONDUCCION | Steel Grade / Grado de acero:<br>B/X42 PSL1 | Surface / Superficie:<br>VARNISHED<br>BARNIZADO           |
| Standard or Specification / Normas o especificaciones:<br>API 5L/ASTM A106/ASME SA106/ASTM A53           | Length / Longitud:<br>19.70 / 21.30 FT                               | Quantity / Cantidad:<br>171 Pcs/pz          | Ends / Extremos:<br>BISELADO NORMAL                       |
| Dimensions / Dimensiones:<br>2.3/8 X 0.154 INCH<br>60.30 X 3.90 MM                                       | Schedule / Cedula:<br>040  |   | Nominal Weight / Peso Nominal:<br>3.65 LB/FT<br>5.42 KG/M |

### SUPPLEMENTARY INFORMATION / INFORMACIÓN SUPLEMENTARIA

FABRICADO POR TENARIS SIDERCA  
 LA PRACTICA DE AFINO EN EL HORNO - CUCHARA INCLUYE UNA INYECCION FINAL DE UNA VARILLA DE SILICIOURO DE CALCIO PARA OBTENER UNA FORMA GLOBULAR DE EVENTUALES MICROINCLUSIONES.  
 MATERIAL LIBRE DE CONTAMINACION DE MERCURIO.  
 FABRICACION DE TUBO: LAMINADO EN CALIENTE Y SIN COSTURA  
 CONTROL VISUAL Y DIMENSIONAL: SATISFACTORIO.  
 NO REPARADO POR SOLDADURA  
 LA DUREZA CUMPLE CON LA NORMA NACE MR 01.75 ULTIMA EDICION.  
 EDICION DE LA NORMA: API 5L, 44° Edition 2007 - ISO 3183:2007  
 EDICION DE LA NORMA: ASTM A53/A 53 2007  
 EDICION DE LA NORMA: ASTM A 106/ 2006A  
 EDICION DE LA NORMA: ASME SA 53/2007  
 EDICION DE LA NORMA: MR 01-75 - ISO 15156 - 2003  
 TRATAMIENTO TERMICO: DIRECTO DE LAMINACION.  
 CONTROL NO DESTRUCTIVO TUBO (C.N.D.): SATISFACTORIO.  
 METODO DE INSPECCION: E.M.I. "FULL LENGTH" LONG. (EXT.) NOTCH 12.5%.  
 PRUEBA HIDRAULICA: 207 Kpa\*100 = 3000 Psi (5 seq).  
 TAMSA REF. 838342

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# CERTIFICADO DE PRUEBAS EN FABRICA

Number / Numero: 08060254  
Page / Pagina: 7 / 7

Date / Dia: Nov 06, 2008

Tubos de Acero de Mexico, S.A.  
Carret. Mexico Veracruz Km 433.7 SN  
Delino Valenzuela Tejeria, Veracruz, Veracruz  
C.P. 91697 MEXICO  
(52) 229 989 1100 tel  
(52) 229 989 1600 fax

|   |  |   |   |
|---|--|---|---|
| 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 |
| Manufacture Process / Proceso de fabricación: SEAMLESS HOT ROLLED                           | Product Type / Tipo de producto: LINE PIPE SEAMLESS CONDUCCION |   | 116733/01   |
| LAMINADO EN CALIENTE SIN COSTURA  |  |   | Surface / Superficie: VARNISHED BARNIZADO             |
| Standard or Specification / Normas o especificaciones: API 5L/ASTM A106/ASME SA106/ASTM A53 |  |   | Ends / Extremos: NORMAL BEVEL BISELADO NORMAL         |
| Dimensions / Dimensiones: 2 3/8 X 0 154 INCH  | Schedule / Cedula: 040   | Length / Longitud: 19.70 / 21.30 FT         | Nominal Weight / Peso Nominal: 3.65 LB/FT             |
| 60.30 X 3.90 MM   |  | 6.00 / 6.50 MTS                             | 5.42 KG/M   |
|   |  | Steel Grade / Grado de acero: B/X42 PSL1    |   |
|   |  | Quantity / Cantidad: 171 Pcs/pz             |   |

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.

TENARIS QUALITY DEPARTMENT SIGNATURE



Quality System Certified  
N° 1.10950

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

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

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