

## MILL TEST CERTIFICATE

Number / Número: **16008269**  
 Page / Página: **1 / 4**  
 Date / Día: **Mar 06, 2016**

|  |                                  |  |   |   |
|--|----------------------------------|--|---|---|
| Customer / Cliente: <b>PLESA ANAHUAC Y CIAS. S.A. DE C.V.</b>  |                                  | Customer's Order / Orden Cliente - Item N°                                   | Customer's Reference/Referencia del cliente | Manufacturer's Works Order N° / Confirmación de Venta<br><b>241983/01</b> |
| Manufacture Process / Proceso de fabricación:<br><b>SEAMLESS HOT ROLLED<br/>LAMINADO EN CALIENTE SIN COSTURA</b> |                                  | Product Type / Tipo de producto:<br><b>LINE PIPE SEAMLESS<br/>CONDUCCION</b> |   | Surface / Superficie:<br><b>VARNISHED<br/>BARNIZADO</b>                   |
| Standard or Specification / Normas o especificaciones:<br><b>API 5L ED45</b>                                     |                                  | Steel Grade / Grado de acero:<br><b>B/X42-L245/L290 PSL1</b>                 |   | Ends / Extremos: <b>PLAIN END<br/>LISO CORTE RECTO</b>                    |
| Dimensions / Dimensiones:<br><b>1.32 X 0.133 INCH<br/>33.40 X 3.40 MM</b>  | Schedule / Cédula:<br><b>040</b> | Length / Longitud:<br><b>37.70 / 38.70 FT<br/>11.50 / 11.80 MTS</b>          | Quantity / Cantidad:<br><b>85 Pcs/pz</b>    | Nominal Weight / Peso Nominal:<br><b>1.68 LB/FT<br/>2.52 KG/M</b>         |

### TENSILE TEST / ENSAYOS DE TENSION

| Heat N°<br>Colada N° | Sample N°<br>Muestra N° | Specimen condition<br>Condición de la probeta |              |     |                | Specimen dimensions<br>Dimensiones de la probeta |                         | Test temp<br>Temp. de ensayo | Y.S.                    | U.T.S. | Y.S.<br>/ U.T.S.                    | Elongation<br>Alargamiento |
|----------------------|-------------------------|---|--------------|-----|----------------|--|-------------------------|------------------------------|-------------------------|--------|-------------------------------------|----------------------------|
|                      |                         | Ls  | Type<br>Tipo | Ori | Size<br>Tamaño | Area<br>Sección                                  | Unit / Unidad<br>KG/MM2 |                              | Unit / Unidad<br>KG/MM2 |        |                                     |                            |
| 742962               | A3947/L                 | B   | Ss           | L   | 3.38 X 33.41   | 318.90   | RT                      | 34.4                         | 51.7                    | 0.66   | % in 2 inches<br>Min.:<br>Obt.<br>% |                            |
|                      |                         |   |              |     | mm             | mm2  | °C                      |                              |                         |        | 41.00                               |                            |

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

### TECHNOLOGICAL TEST / ENSAYOS TECNOLÓGICOS

| Heat N°<br>Colada N° | Sample N°<br>Muestra N° | Bend Test<br>Ensayo de Curvado |
|----------------------|-------------------------|--------------------------------|
| 742962               | A3947/L                 | GOOD/BUENO                     |

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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Number / Número: **16008269** Page / Página: **2 / 4**  
 Date / Día: **Mar 06, 2016**

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| Standard or Specification / Normas o especificaciones.<br><b>API 5L ED45</b>                                     |                                 | Steel Grade / Grado de acero.<br><b>B/X42-L245/L290 PSL1</b>                 |   | Ends / Extremos. <b>PLAIN END<br/>LISO CORTE RECTO</b>                    |
| Dimensions / Dimensiones.<br><b>1.32 X 0.133 INCH<br/>33.40 X 3.40 MM</b>  | Schedule / Cédula<br><b>040</b> | Length / Longitud.<br><b>37.70 / 38.70 FT<br/>11.50 / 11.80 MTS</b>          | Quantity / Cantidad. <b>85 Pcs/pz</b>       | Nominal Weight / Peso Nominal<br><b>1.68 LB/FT<br/>2.52 KG/M</b>          |

## CHEMICAL COMPOSITION / COMPOSICIÓN QUÍMICA

Composition % / Composición %

|             |       | C     | Mn | Si | Cr | Mo | S | P      | Ni  | V | Cu  | Nb | Ti |  |
|-------------|-------|-------|----|----|----|----|---|--------|-----|---|-----|----|----|--|
|             |       | X 100 |    |    |    |    |   | X 1000 |     |   |     |    |    |  |
| Heat Colada | H Max |       |    |    |    |    |   |        |     |   |     |    |    |  |
|             | Min   |       |    |    |    |    |   |        |     |   |     |    |    |  |
| Sample N°   | P Max |       |    |    |    |    |   |        |     |   |     |    |    |  |
|             | Min   |       |    |    |    |    |   |        |     |   |     |    |    |  |
| Muestra N°  |       |       |    |    |    |    |   |        |     |   |     |    |    |  |
| 742962      | H     | 17    | 90 | 26 | 7  | 4  | 1 | 11     | 120 | 1 | 140 | 1  | 3  |  |
| A3947/L     | P     | 17    | 92 | 30 | 6  | 3  | 2 | 10     | 120 | 3 | 140 | 2  | 2  |  |
| A3948/L     | P     | 17    | 92 | 30 | 6  | 3  | 3 | 10     | 120 | 3 | 140 | 2  | 2  |  |

H: Heat / Colada

P: Product / Producto

Max: Maximum / Máximo

Min: Minimum / Mínimo

## SUPPLEMENTARY INFORMATION / INFORMACIÓN SUPLEMENTARIA

MANUFACTURED BY TENARIS SILCOTUB

Standard: API 5L Year: 2012 Revision: Ed¿ Revision year: 45th

Standard: ASTM A53-12 Year: 2012

Standard: ASTM A106 Year: 2013

Standard: ASME SA53 Year: 2013

Standard: ASME SA106 Year: 2013

Standard: NACE MR0175 Year: 2003

NONDESTRUCTIVE TEST-EDDY CURRENT ACC. TO ASTM E309,

HOLE DIAMETER 1,1 mm max.: WITHOUT OBJECTIONS

NONDESTRUCTIVE TEST-EMI ACC. TO ASTM E570: WITHOUT OBJECTIONS

AFTER EMI INSPECTION, UNTESTED ENDS HAVE BEEN CUT OFF

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Number / Número Page / Página:

16008269

3 / 4

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### SUPPLEMENTARY INFORMATION / INFORMACIÓN SUPLEMENTARIA

MATERIAL ACC. TO ASME II PART.D TAB Y1  
 MATERIAL ACC. TO NACE MR 01-75  
 VISUAL AND DIMENSIONAL CONTROL HAS BEEN CARRIED OUT WITH SATISFACTORY RESULT  
 STEEL IS FULLY KILLED AND PRODUCED BY ELECTRIC FURNACE TO A FINE GRAIN PRACTICE  
 THE PRODUCT SUPPLIED IS IN COMPLIANCE WITH THE REQUIREMENTS OF THE ORDER  
 HYDROSTATIC TEST: 20.5 mpa ( 5 seconds): SATISFACTORY  
 SUPERFICIAL HARDNESS (Max: 235.0):  
 HEAT SAMPLE SC LS SCALE VAL1 VAL2 VAL3  
 742962 A3947/L AM B HBW 144.0 141.0 142.0  
 SC: SPECIMEN CONDITION  
 AM: AS MANUFACTURED  
 LS: LOCATION OF SAMPLE  
 B: BODY  
 VAL: VALUE  
 TAMS REF: 739075

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DICA 777 04 0

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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 aqui 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 CERTIFICATION DEPT.  
 DEPTO. DE CERTIFICACIÓN DE CALIDAD  
**ISRAEL DE LA CRUZ M.**



QUALITY CERTIFICATION DEPT.  
 RESPONSABLE DEL DEPTO. DE CERTIFICACIÓN DE CALIDAD  
**ANGEL CESAR ALEMÁN GIL.**

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