

MILL TEST CERTIFICATE

Number / Número: **15043795**
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 Date / Día: **Nov 20, 2015**

| | | | | |
|--|---------------------------------|--|--|--|
| 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 236682/01 |
| 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 ED45 | | Steel Grade / Grado de acero: B/X42-L245/L290 PSL1 | | Ends / Extremos: NORMAL BEVEL BISELADO NORMAL |
| Dimensions / Dimensiones: 18.00 X 0.375 INCH 457.00 X 9.50 MM | Schedule / Cédula N/A | Length / Longitud: 26.20 / 38.70 FT 8.00 / 11.80 MTS | Quantity / Cantidad: 219.882 FT 67.020 MTS | Nominal Weight / Peso Nominal: 6 Pcs/pz 16,444.366 LB 7,459.000 KG |

TENSILE TEST / ENSAYOS DE TENSIÓN

| 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. | U.T.S. | Y.S. / U.T.S. | Elongation Alargamiento |
|----------------------|-------------------------|---|------|-----|----------------|--|-------------------------|------------------------------|-------------------------|--------|-------------------------------------|----------------------------|
| | | Ls | Type | Ori | Size Tamaño | Area Sección | Unit / Unidad KG/MM2 | | Unit / Unidad KG/MM2 | | | |
| 951664 | G9159 | B | Ss | L | 37.89 X 9.86 | 374.00 | RT | 41.3 | 51.0 | 0.81 | % in 2 inches Min.: Obt. % | |
| 951665 | G9162 | B | Ss | L | 37.90 X 9.45 | 358.60 | RT | 45.1 | 54.3 | 0.83 | | |

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

TECHNOLOGICAL TEST / ENSAYOS TECNOLÓGICOS

| Heat N° Colada N° | Sample N° Muestra N° | Flattening Test Ensayo de Aplastamiento |
|----------------------|-------------------------|--|
| 951664 | G9158 | GOOD/BUENO |
| 951665 | G9161 | 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.

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.

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CHEMICAL COMPOSITION / COMPOSICIÓN QUÍMICA

| | | Composition % / Composición % | | | | | | | | | | | | |
|------------|-----|-------------------------------|-----|----|----|----|--------|----|-----|----|-----|---------|----|---|
| | | C | Mn | Si | Cr | Mo | S | P | Ni | V | Cu | Nb | Ti | B |
| | | X 100 | | | | | X 1000 | | | | | X 10000 | | |
| Heat | H | Max | Min | | | | | | | | | | | |
| Colada | P | Max | Min | | | | | | | | | | | |
| Sample N° | | | | | | | | | | | | | | |
| Muestra N° | Min | | | | | | | | | | | | | |
| 951664 | H | 10 | 110 | 21 | 14 | 6 | 2 | 10 | 110 | 30 | 140 | 1 | 2 | 2 |
| G9159 | P | 11 | 103 | 20 | 14 | 6 | 2 | 10 | 110 | 30 | 130 | 1 | 2 | 1 |
| G9160 | P | 10 | 104 | 19 | 13 | 5 | 2 | 11 | 110 | 20 | 150 | 1 | 2 | 2 |
| 951665 | H | 10 | 105 | 20 | 12 | 6 | 2 | 9 | 120 | 50 | 140 | 1 | 2 | 2 |
| G9162 | P | 11 | 103 | 20 | 12 | 5 | 3 | 10 | 120 | 40 | 140 | 1 | 2 | 1 |
| G9163 | P | 11 | 104 | 19 | 12 | 5 | 2 | 10 | 120 | 40 | 150 | 1 | 2 | 1 |

H: Heat / Colada

P: Product / Producto

Max: Maximum / Máximo

Min: Minimum / Mínimo

SUPPLEMENTARY INFORMATION / INFORMACIÓN SUPLEMENTARIA

MANUFACTURED BY TENARIS DALMINE
 Standard: API 5L Year: 2012 Revision: Ed2 Revision year: 45th
 Standard: ASTM A53 Year: 2012
 Standard: ASME SA53 Year: 2013
 Standard: ASTM A106 Year: 2014
 Standard: ASME SA106 Year: 2013
 Standard: NACE MR0175/ISO 15156 Year: 2009
 Country of melt Italy

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SUPPLEMENTARY INFORMATION / INFORMACIÓN SUPLEMENTARIA

Continuous casting and Fully killed
 AFTER INSPECTION OPERATION, THE MATERIAL HAS NOT A RESIDUAL MAGNETISM GREATER THAN 20 GAUSS
 HARDNESS HRC 22 MAX. ACCORDING TO NACE MR-01-75/ISO 15156
 SEAMLESS HOT FINISHED TUBES
 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
 NO WELD REPAIR, MERCURY AND RADIATION FREE
 HYDROSTATIC TEST: MPA 10.3 (5 SECONDS): SATISFACTORY
 SUPERFICIAL HARDNESS (Max: 100.0):
 HEAT SAMPLE SC LS SCALE VAL
 951664 G9159 AM B HRB 74.5
 951665 G9162 AM B HRB 81.1
 SC: SPECIMEN CONDITION
 AM: AS MANUFACTURED
 LS: LOCATION OF SAMPLE
 B: BODY
 VAL: VALUE
 TAMS REF: 700991

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

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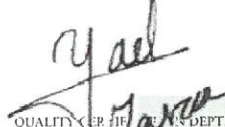
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This is to certify that the product described here has been manufactured, sampled, tested, and inspected in accordance with purchaser order requirements. This certificate is not a declaration of origin nor may it be used as a declaration of origin.

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.

TENARIS QUALITY DEPARTMENT SIGNATURE


 QUALITY CERTIFICATION DEPT.
 DEPTO. DE CERTIFICACIÓN DE CALIDAD
Yael GARCIA HERNANDEZ


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

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