

MILL TEST CERTIFICATE

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Date / Día: Aug 10, 2014

| | | | | |
|--|--------------------------|--|---|--|
| 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 214907/01 |
| 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. PLAIN END LISO CORTE RECTO |
| Dimensions / Dimensiones. 1.90 X 0.200 INCH 48.30 X 5.10 MM | Schedule / Cédula 080 | Length / Longitud. 19.70 / 21.30 FT 6.00 / 6.50 MTS | Quantity / Cantidad. 265 Pcs/pz | Nominal Weight / Peso Nominal 3.63 LB/FT 5.40 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. | U.T.S. | Y.S. | Elongation Alargamiento |
|----------------------|-------------------------|---|--------------|-----|--|----|------------------------------|------|-------------------------|-------------------------|----------------------------|
| | | Ls | Type Tipo | Ori | Size Tamaño | mm | | °C | Unit / Unidad KG/MM2 | Unit / Unidad KG/MM2 | |
| 741832 | C0032/L | B | Ss | L | 13.04 X 5.18 | | RT | 34.4 | 50.5 | 0.68 | 31.00 |

| | | | |
|---|---|--|--|
| Ls: Location of the sample / Localización de la muestra L: Longitudinal / Longitudinal | B: Body / Cuerpo RT: Room Temperature / Temperatura Ambiente | Ss: Strip specimen / Rectangular EUL: Extension Under Load Method | Ori: Orientation / Orientación 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° | Bend Test Ensayo de Curvado |
|----------------------|-------------------------|--------------------------------|
| 741832 | C0032/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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| Standard or Specification / Normas o especificaciones: API 5L ED45 | | Steel Grade / Grado de acero: B/X42-L245/L290 PSL1 | Ends / Extremos: PLAIN END LISO CORTE RECTO | |
| Dimensions / Dimensiones: 1.90 X 0.200 INCH 48.30 X 5.10 MM | Schedule / Cédula 080 | Length / Longitud: 19.70 / 21.30 FT 6.00 / 6.50 MTS | Quantity / Cantidad: 265 Pcs/pz | Nominal Weight / Peso Nominal 3.63 LB/FT 5.40 KG/M |

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° Muestra N° | P | Max | | | | | | | | | | | |
| | Min | | | | | | | | | | | | |
| 741832 | H | | | | | | | | | | | | |
| C0032/L | P | 16 | 90 | 24 | 9 | 5 | 2 | 11 | 170 | 2 | 180 | 2 | 3 |
| C0033/L | P | 16 | 89 | 25 | 8 | 4 | 4 | 11 | 170 | 2 | 180 | 2 | 2 |
| C0037/L | P | 16 | 91 | 24 | 8 | 4 | 4 | 11 | 150 | 3 | 170 | 2 | 2 |
| C0037/L | P | 16 | 91 | 24 | 8 | 4 | 4 | 11 | 150 | 3 | 170 | 2 | 2 |

H: Heat / Colada P: Product / Producto Max: Maximum / Maximo Min: Minimum / Minimo

SUPPLEMENTARY INFORMATION / INFORMACIÓN SUPLEMENTARIA

MANUFACTURED BY TENARIS SILCOTUB
 Standard: API 5L Year: 2012 Revision: Edj 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: WITHOUT OBJECTIONS
 NONDESTRUCTIVE TEST-EMI ACC. TO ASTM E570: WITHOUT OBJECTIONS
 AFTER EMI INSPECTION, UNTESTED ENDS HAVE BEEN CUT OFF

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SUPPLEMENTARY INFORMATION / INFORMACIÓN SUPLEMENTARIA

MATERIAL ACC. TO ASME II PART.D TAB Y1 + 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
 741832 C0032/L AM B HBW 149.0 150.0 148.0
 SC: SPECIMEN CONDITION
 AM: AS MANUFACTURED
 LS: LOCATION OF SAMPLE
 B: BODY
 VAL: VALUE
 TAMSA REF: 008804

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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 CERTIFICACION DE CALIDAD
 ANTONIO FENTANES GONZALEZ



CHIEF OF QUALITY CERTIFICATION DEPT.
 RESPONSABLE DEL DEPTO. DE CERTIFICACION DE CALIDAD
 Rafael Gutierrez De Velasco Magallanes

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