



MILL TEST CERTIFICATE CERTIFICADO DE PRUEBAS EN FABRICA

Number / Número:

14043275

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 Date / Día: **August 06, 2014**

 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

| | | | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------|
| Customer / Cliente: PLESA ANAHUAC Y CIAS, S.A. DE C.V. | | Customer's Order Item / Orden Cliente - Item: N/A | | Customer's Reference / Ref. del Cliente: N/A | | Manufacturer's Works Order N° / Confirmación de Venta: 219417/01 | |
| Manufacturing Process / Proceso de Manufactura: SEAMLESS HOT ROLLED LAMINADO EN CALIENTE SIN COSTURA | | | Product Type / Tipo de Producto: LINE PIPE SEAMLESS CONDUCCION SIN COSTURA | | | Surface / Superficie: VARNISHED BARNIZADO | |
| Standard or Specification / Normas o Especificaciones: API SPEC 5L/OCTOBER 1, 2007, ASTM A106/11, ASTM A53/12, ASME SA106/2010 | | | | Steel Grade / Grado de acero: B/X42-L245/L290 PSL1 | | Ends / Extremos: NORMAL BEVEL BISELADO NORMAL | |
| Dimensions / Dimensiones: 2.875 X 0.276 INCH 73 X 7 MM | | Schedule / Cédula: SCH 080 / W.C XS | Length / Longitud: 19.69 / 21.33 FT 6.00 / 6.50 MTS | | Quantity / Cantidad: 19 Pcs/Pz 404.429 FT 3071.042 LB 123.270 MTS 1393.000 KG | | Nominal Weight / Peso Nominal: 7.67 LB/FT 11.41 KG/M |

TENSILE TEST / ENSAYO 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. ensayo | Y.S. | | U.T.S. | | Elongation / Alargamiento | | |
|----------------------|-------------------------|-----------------------------------------------|----|--------------|-----|--------------------------------------------------|-----------------|---------------------------|------------|---------|--------|-----------|---------------------------|------|------|
| | | Ls | Sc | Type Tipo | Ori | Size Tamaño | Area Sección | | Eul 0.50 % | | Req. | Req. Max. | Lo | Min. | Obt. |
| | | | | | | | | | Min: 290 | Max: -- | | | | | |
| | | | | | | °C | | MPa | | MPa | | | | | |
| 6073 | 92179 | B | AM | Ss | L | 19.69 X 06.64 | 132.76 | RT | 375 | 535 | 0,70 | 2 | 22.7 | 38.0 | |

| | | | |
|----------------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------------|
| AM: As manufactured / Según proceso de fabricación | Ls: Location of sample / Ubicación de la muestra | Ori: Orientation / Orientación | Sc: Specimen condition / Condición de la probeta |
| B: Body / Cuerpo | Max: Maximum / Máximo | Req. Max: Required maximum / Máximo requerido | Ss: Strip specimen / Muestra rectangular |
| L: Longitudinal / Longitudinal | Min: Minimum / Mínimo | Req: Required / Requerido | U.T.S: Ultimate tensile strength / Resistencia |
| Lo: Initial length / Longitud inicial | Obt: Obtained / Obtenido | RT: Room temperature / Temperatura ambiente | Y.S: Yield strength / Fluencia |

CHEMICAL COMPOSITION / COMPOSICION QUIMICA

| | | Composition % / Composición % | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-----|-------------------------------|----|-----|----|-----|--------|----|-----|----|----|-----|-----|----|----|----|---------|----|----|-------|--------|--------|--------|-----|--|
| | | X 100 | | | | | X 1000 | | | | | | | | | | X 10000 | | | | | X 100 | | | |
| | | C | Mn | Si | Mo | Cr | P | S | V | Nb | Ni | Cu | Sn | Al | Ti | As | B | Ca | N | Ce. 1 | Col. 1 | Col. 2 | Col. 3 | | |
| Heat N° Colada N° | H | Max | 28 | 120 | -- | 15 | 40 | 30 | 30 | 80 | -- | 400 | 400 | -- | -- | -- | -- | -- | -- | -- | -- | 15 | 100 | 6 | |
| | Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| Heat N° Colada N° | P | Max | 28 | 120 | -- | 15 | 40 | 30 | 30 | 80 | -- | 400 | 400 | -- | -- | -- | -- | -- | -- | -- | -- | 15 | 100 | 6 | |
| | Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 6073 | | H | 19 | 77 | 31 | 0.5 | 7 | 6 | 2 | 1 | 1 | 30 | 58 | 6 | 23 | 3 | 2 | 1 | 16 | 62 | 34 | 0.5 | 16.4 | 0.2 | |
| 6073 | | P | 18 | 74 | 29 | 0.8 | 9 | 5 | 1.1 | 0 | 0 | 30 | 57 | 6 | 24 | 0 | 1 | 0 | 16 | 62 | 33 | 0 | 18.5 | 0 | |

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CHEMICAL COMPOSITION / COMPOSICIÓN QUÍMICA

| | | Composition % / Composición % | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-------------------------|-------------------------------|----|-----|----|-----|--------|----|-----|----|----|-----|-----|----|----|----|---------|----|----|-------|--------|--------|--------|----|
| | | X 100 | | | | | X 1000 | | | | | | | | | | X 10000 | | | X 100 | | | | |
| | | C | Mn | Si | Mo | Cr | P | S | V | Nb | Ni | Cu | Sn | Al | Ti | As | B | Ca | N | Ce. 1 | Col. 1 | Col. 2 | Col. 3 | |
| Heat N° Colada N° | Sample N° Muestra N° | H Max | 28 | 120 | -- | 15 | 40 | 30 | 30 | 80 | -- | 400 | 400 | -- | -- | -- | -- | -- | -- | -- | -- | 15 | 100 | 6 |
| | | H Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 6073 | 92180 | P Max | 28 | 120 | -- | 15 | 40 | 30 | 30 | 80 | -- | 400 | 400 | -- | -- | -- | -- | -- | -- | -- | -- | 15 | 100 | 6 |
| | | P Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | P | 18 | 74 | 29 | 0.7 | 8 | 5 | 1.2 | 0 | 0 | 30 | 54 | 5 | 23 | 0 | 2 | 0 | 18 | 62 | 33 | 0 | 17.1 | 0 |

| | | | |
|----------------------------------------------|----------------------------|-----------------------|-----------------------|
| Ce. 1: Carbon equivalent/Carbono equivalente | Col. 2: SUMA Mo+Cr+Ni+Cu+V | H: Heat / Colada | Min: Minimum / Mínimo |
| Col. 1: SUMA Nb+V+Ti | Col. 3: SUMA Nb+V | Max: Maximum / Máximo | P: Product / Producto |

THROUGH WALL HARDNESS / DUREZA EN EL ESPESOR

| Required values Valores requeridos | | Individuals / Individuales | | | Average / Promedio | | | Hardness type/Tipo de dureza:HRC | | | |
|---------------------------------------|-------------------------|----------------------------|-----------|---------|--------------------|-----------------|---------|----------------------------------|------|------|------|
| | | Min: -- | Max: 22.0 | Var: -- | Min: -- | Max: -- | Var: -- | | | | |
| Heat N° Colada N° | Sample N° Muestra N° | Specimen condition | | | Quad. | Scale Escala | MW | | | | |
| | | Ls | Sc | | | | 1 | 2 | 3 | Avg. | |
| 6073 | 92179 | B | | | AM | 1 | HRBW | 77.9 | 77.7 | 78.8 | 78.1 |
| 6073 | 92180 | B | | | AM | 1 | HRBW | 77.6 | 77.0 | 77.2 | 77.3 |

| | | | |
|----------------------------------------------------|--------------------------------------------------|----------------------------|----------------------------|
| AM: As manufactured / Según proceso de fabricación | Ls: Location of sample / Ubicación de la muestra | MW: Middle wall / Centro | Var: Variation / Variación |
| Avg: Average / Promedio | Max: Maximum / Máximo | Quad: Quadrant / Cuadrante | |

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THROUGH WALL HARDNESS / DUREZA EN EL ESPESOR

| | | |
|------------------|-----------------------|--------------------------------------------------|
| B: Body / Cuerpo | Min: Minimum / Mínimo | Sc: Specimen condition / Condición de la probeta |
|------------------|-----------------------|--------------------------------------------------|

FLATTENING TEST / ENSAYO DE APLASTAMIENTO

| Standard / Norma: | | |
|----------------------|-------------------------|---------------------|
| Heat N° Colada N° | Sample N° Muestra N° | Result Resultado |
| 6073 | 92180 | Good / Bueno |

HYDROSTATIC TEST / PRUEBA HIDRAULICA

| Pressure / Presión | | Time / Tiempo | | Results / Resultado |
|--------------------|---------------|--------------------|--|------------------------------|
| Unit / Unidad. | Value / Valor | Seconds / Segundos | | |
| mpa | 20.5 | 5 | | Satisfactory / Satisfactorio |

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HEAT TREATMENT / TRATAMIENTO TÉRMICO

| |
|----------------------------------------------------------------------------------------------------|
| Heat treatment / Tratamiento térmico: Pipe / Tubo |
| Quench media of heat treatment process / Medio de enfriamiento del tratamiento térmico: n/a |
| Temperature Scale / Escala de Temperatura: n/a |
| Type Tipo |
| asrolled |

SUPPLEMENTARY INFORMATION / INFORMACIÓN SUPLEMENTARIA

| Supplementary Information Información Suplementaria | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Manufactured by TenarisTamsa Steel making process: Electric Arc Furnace-Ladle Furnace-Continuous Casting Machine. Fully Killed Steel Material free from Mercury contamination Not repaired by welding Non destructive test. Satisfactory Inspection method . - EMI - FLVI - MPI - ASTM A106/11, ASTM A53/12, ASME SA106/2010 MATERIAL ACCORDING TO NACE MR0175 / ISO 15156-2, 2009 AND NACE MR0103, 2010 ONLY FOR HARDNESS 22 HRC MAX. | Fabricado por TenarisTamsa Fabricación del acero: Horno de Arco Eléctrico-Horno de Afinación-Máquina de Colada Continua. Acero calmado con aluminio Material libre de contaminación de Mercurio No reparado por soldadura Control no destructivo. Satisfactorio Método de inspección . - EMI - FLVI - MPI - ASTM A106/11, ASTM A53/12, ASME SA106/2010 MATERIAL DE ACUERDO A NACE MR0175 / ISO 15156-2, 2009 Y NACE MR0103, 2010 SOLO DUREZA MAX. 22 HRC |

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SUPPLEMENTARY INFORMATION / INFORMACIÓN SUPLEMENTARIA

Supplementary Information
 Información Suplementaria

Tamsa Ref: 007299

Tamsa Ref: 007299

SUMMARY REPORT / REPORTE RESUMEN

| Heat N° Colada N° | Quantity Cantidad (Pieces) | Length Longitud | | Weight Peso (Tons) |
|----------------------|----------------------------------|--------------------|--------|--------------------------|
| | | (ft) | (m) | |
| 6073 | 19 | 404.43 | 123.27 | 1.393 |

| Average length per pipe Longitud promedio por tubo | | Nominal weight per pipe Peso nominal por tubo | |
|-------------------------------------------------------|-------|--------------------------------------------------|--------|
| (ft) | (m) | (lb/ft) | (kg/m) |
| 21.286 | 6.488 | 7.594 | 11.3 |

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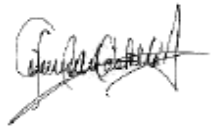

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This is to certify that the product described here has been manufactured, sampled, tested, and inspected in accordance with purchaser order requirements. This certificate is not a declaration of origin nor may it be used as a declaration of origin.

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.

| | | | |
|---------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CUSTOMER . THIRD PARTY | | TENARIS QUALITY DEPARTMENT SIGNATURE | |
| INSPECTION COMPANY COMPAÑIA DE INSPECCION Company Name: N/A Employee Name: N/A | |  QUALITY CERTIFICATION DEPT. DEPTO. DE CERTIFICACION DE CALIDAD Teresa M. Castellá Abraham |  CHIEF OF QUALITY CERTIFICATION DEPT. RESPONSABLE DEL DEPTO. DE CERTIFICACION DE CALIDAD Rafael Gutiérrez de Velasco Magallanes |

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