



Tubos de Acero de México, S.A.
 Carret. México Veracruz Km 433.7 SN
 Delfino Valenzuela Tejería, Veracruz, Veracruz
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CERTIFICADO DE PRUEBAS EN FABRICA
CERTIFICADO DE PRUEBAS EN FABRICA

Number / Número: **13089252** Page / Página: **1 / 6**
 Date / Día: **November 26, 2013**

| | | | | |
|--|---|--|--|---|
| 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: 16085 | Manufacturer's Works Order N° / Confirmación de Venta: 203595/01 |
| 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 5L ED45/JULY 2013 | | Steel Grade / Grado de acero: B/X42-L245/L290 PSL1 | Ends / Extremos: NORMAL BEVEL BISELADO NORMAL | |
| Dimensions / Dimensiones: 6.625 X 0.432 INCH 168.3 X 11 MM | Schedule / Cédula: SCH 080 / W.C XS | Length / Longitud: 19.69 / 21.33 FT 6.00 / 6.50 MTS | Quantity / Cantidad: 110 Pcs/Pz 2320.997 FT 707.440 MTS | Nominal Weight / Peso Nominal: 68023.686 LB 30855.000 KG 28.60 LB/FT 42.67 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 °C | Y.S. Eul 0.50 % Min: 290 Max: -- MPa | | U.T.S. Req. Min: 415 Max: -- MPa | | Y.S./U.T.S. Req. Max. -- | | | Elongation / Alargamiento | | |
|----------------------|-------------------------|---|----|--------------|-----|--|------------------------|----------------------------------|--|-----------|--|----|--------------------------------|------|----|---------------------------|---|-----|
| | | Ls | Sc | Type Tipo | Ori | Size Tamaño mm | Area Sección mm2 | | Req. Max. | Req. Max. | Req. Max. | Lo | Min. | Obt. | in | % | % | |
| | | | | | | | | | | | | | | | | | | MPa |
| 5915 | 86825 | B | AM | Ss | L | 25.55 X 11.12 | 284,12 | RT | 318 | 502 | 0,63 | 2 | 26.4 | 42.0 | | | | |
| 6973 | 18259 | B | AM | Ss | L | 25.58 X 10.74 | 274,73 | RT | 294 | 475 | 0,62 | 2 | 26.3 | 41.0 | | | | |
| 7195 | 18261 | B | AM | Ss | L | 25.49 X 11.02 | 280,90 | RT | 308 | 482 | 0,64 | 2 | 26.4 | 42.0 | | | | |

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

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| Standard or Specification / Normas o Especificaciones: API 5L ED45/JULY 2013 | | | | Steel Grade / Grado de acero: B/X42-L245/L290 PSL1 | | Nominal Weight / Peso Nominal: 28.60 LB/FT 42.67 KG/M | |
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CHEMICAL COMPOSITION / COMPOSICION QUIMICA

| Heat N° Colada N° | Sample N° Muestra N° | H Max Min | Composition % / Composición % | | | | | | | | | | | | | | | | | | | Col. 1 | Col. 2 | Col. 3 |
|----------------------|-------------------------|-----------------|-------------------------------|-----|----|-----|----|--------|-----|----|----|-----|---------|----|----|----|----|-------|----|----|-----|--------|--------|--------|
| | | | 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 | | | | |
| | | | 28 | 120 | -- | 15 | 40 | 30 | 30 | 80 | -- | 400 | 400 | -- | -- | -- | -- | -- | -- | -- | 15 | 100 | 6 | |
| | | | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | | P | 28 | 120 | -- | 15 | 40 | 30 | 30 | 80 | -- | 400 | 400 | -- | -- | -- | -- | -- | -- | -- | 15 | 100 | 6 | |
| | | | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 5915 | 00001 | H | 18 | 75 | 31 | 0.6 | 8 | 7 | 2 | 2 | 0 | 10 | 39 | 3 | 19 | 1 | 2 | 1 | 14 | 76 | 0.3 | 13.7 | 0.2 | |
| 5915 | 86825 | P | 17 | 77 | 32 | 0.6 | 9 | 5 | 1.1 | 0 | 0 | 20 | 32 | 3 | 20 | 0 | 1 | 0 | 14 | 76 | 0 | 14.8 | 0 | |
| 5915 | 86826 | P | 17 | 76 | 30 | 0.6 | 9 | 4 | 0.7 | 0 | 0 | 20 | 32 | 3 | 20 | 0 | 1 | 0 | 15 | 76 | 0 | 14.8 | 0 | |
| 6973 | 00001 | H | 17 | 74 | 29 | 0.2 | 2 | 6 | 2 | 1 | 1 | 10 | 37 | 2 | 19 | 2 | 1 | 1 | 14 | 52 | 0.4 | 7 | 0.2 | |
| 6973 | 18259 | P | 17 | 70 | 28 | 0.6 | 1 | 6 | 1.7 | 0 | 0 | 20 | 36 | 3 | 16 | 0 | 1 | 0 | 11 | 51 | 0 | 7.2 | 0 | |
| 6973 | 18260 | P | 17 | 70 | 27 | 0.6 | 1 | 6 | 1.2 | 0 | 0 | 20 | 36 | 3 | 17 | 0 | 1 | 0 | 11 | 49 | 0 | 7.2 | 0 | |
| 7195 | 00001 | H | 18 | 74 | 28 | 0.3 | 3 | 6 | 2 | 1 | 1 | 20 | 32 | 2 | 19 | 2 | 1 | 1 | 14 | 57 | 0.4 | 8.6 | 0.2 | |
| 7195 | 18261 | P | 18 | 72 | 26 | 0.6 | 3 | 5 | 1.5 | 0 | 0 | 20 | 31 | 2 | 18 | 0 | 1 | 0 | 12 | 51 | 0 | 8.7 | 0 | |
| 7195 | 18262 | P | 18 | 72 | 26 | 0.6 | 3 | 5 | 1.6 | 0 | 0 | 20 | 31 | 2 | 17 | 0 | 1 | 0 | 11 | 60 | 0 | 8.7 | 0 | |

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

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THROUGH WALL HARDNESS / DUREZA EN EL ESPESOR

| Required values Valores requeridos | | Individuals / Individuales | | | Average / Promedio | | | Hardness type/Tipo de dureza:HRC | | | | | | | | | | | | |
|---------------------------------------|-------------------------|----------------------------|----|-------|--------------------|------|------|----------------------------------|------|------|------|------|------|------|------|------|------|------|--|--|
| Heat N° Colada N° | Sample N° Muestra N° | Ls | Sc | Quad. | Scale Escala | OD | | | | MW | | | | ID | | | | Var. | | |
| | | | | | | 1 | 2 | 3 | Avg. | 1 | 2 | 3 | Avg. | 1 | 2 | 3 | Avg. | | | |
| 5915 | 86825 | B | AM | 1 | HRBW | 76.0 | 75.4 | 76.1 | 75.8 | 76.0 | 77.7 | 76.4 | 77.4 | 78.2 | 79.8 | 78.4 | 78.8 | 3.0 | | |
| 5915 | 86826 | B | AM | 1 | HRBW | 74.9 | 74.6 | 74.0 | 74.5 | 76.6 | 75.2 | 75.6 | 75.8 | 77.9 | 76.8 | 76.7 | 77.1 | 2.6 | | |
| 6973 | 18259 | B | AM | 1 | HRBW | 71.9 | 72.3 | 73.1 | 72.4 | 72.7 | 73.0 | 73.5 | 73.1 | 72.6 | 72.4 | 74.5 | 73.2 | 0.7 | | |
| 6973 | 18260 | B | AM | 1 | HRBW | 72.4 | 72.0 | 72.0 | 72.1 | 72.8 | 71.6 | 72.9 | 72.4 | 72.9 | 72.3 | 72.8 | 72.7 | 0.5 | | |
| 7195 | 18261 | B | AM | 1 | HRBW | 74.1 | 73.8 | 73.8 | 73.9 | 74.5 | 74.4 | 75.0 | 74.6 | 74.4 | 74.4 | 74.6 | 74.5 | 0.7 | | |
| 7195 | 18262 | B | AM | 1 | HRBW | 73.7 | 73.9 | 73.7 | 73.8 | 74.0 | 74.0 | 73.9 | 74.0 | 74.2 | 74.2 | 74.5 | 74.3 | 0.5 | | |

| | | | |
|--|--|---|--|
| AM: As manufactured / Según proceso de fabricación | ID: Internal diameter / Diámetro interno | Min: Minimum / Mínimo | Quad: Quadrant / Cuadrante |
| Avg: Average / Promedio | Ls: Location of sample / Ubicación de la muestra | MW: Middle wall / Centro | Sc: Specimen condition / Condición de la probeta |
| B: Body / Cuerpo | Max: Maximum / Máximo | OD: Outside diameter / Diámetro externo | Var: Variation / Variación |

FLATTENING TEST / ENSAYO DE APLASTAMIENTO

| Standard / Norma: | | | Standard / Norma: | | | Standard / Norma: | | |
|----------------------|-------------------------|---------------------|----------------------|-------------------------|---------------------|----------------------|-------------------------|---------------------|
| Heat N° Colada N° | Sample N° Muestra N° | Result Resultado | Heat N° Colada N° | Sample N° Muestra N° | Result Resultado | Heat N° Colada N° | Sample N° Muestra N° | Result Resultado |
| 5915 | 86826 | Good / Bueno | 6973 | 18260 | Good / Bueno | 7195 | 18262 | Good / Bueno |

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HYDROSTATIC TEST / PRUEBA HIDRAULICA

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

HEAT TREATMENT / TRATAMIENTO TERMICO

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

SUPPLEMENTARY INFORMATION / INFORMACION 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 | 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 |

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| Supplementary Information | Información Suplementaria |
|--|--|
| Not repaired by welding Non destructive test. Satisfactory Inspection method - EMI - FLVI - MPI - MATERIAL ACCORDING TO NACE MR0175 / ISO 15158-2, 2009 AND NACE MR0103, 2010 ONLY FOR HARDNESS 22 HRC MAX. Tamsa Ref: 474458 API 5L, JULY 2013/ASTM A106, 11/ASME SA106, 2010/ASTM A53, 12 | No reparado por soldadura Control no destructivo. Satisfactorio Método de inspección - EMI - FLVI - MPI - MATERIAL DE ACUERDO A NACE MR0175 / ISO 15158-2, 2009 Y NACE MR0103, 2010 SOLO DUREZA MAX. 22 HRC Tamsa Ref: 474458 API 5L, JULY 2013/ASTM A106, 11/ASME SA106, 2010/ASTM A53, 12 |

SUMMARY REPORT / REPORTE RESUMEN

| Heat N° Colada N° | Quantity Cantidad (Pieces) | Length Longitud | | Weight Peso (Tons) | Heat N° Colada N° | Quantity Cantidad (Pieces) | Length Longitud | | Weight Peso (Tons) |
|----------------------|----------------------------------|--------------------|--------|--------------------------|----------------------|----------------------------------|--------------------|--------|--------------------------|
| | | (ft) | (m) | | | | (ft) | (m) | |
| 5915 | 2 | 42.42 | 12.93 | 0.555 | 7195 | 38 | 804.53 | 245.22 | 10.695 |
| 6973 | 70 | 1,474.05 | 449.29 | 19.605 | | | | | |

| Average length per pipe | | Nominal weight per pipe | |
|----------------------------|-------|-------------------------|--------|
| Longitud promedio por tubo | | Peso nominal por tubo | |
| (ft) | (m) | (lb/ft) | (kg/m) |
| 21.1 | 6.431 | 29.308 | 43.615 |

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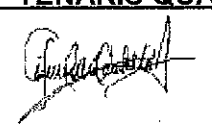
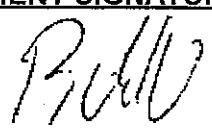


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This is to certify that the product described here has been manufactured, sampled, tested, and inspected in accordance with purchaser order requirements. This certificate is not a declaration of origin nor may it be used as a declaration of origin.
 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 INSPECCIÓN NO APLICA Employee Name: N/A |  QUALITY CERTIFICATION DEPT. DEPTO. DE CERTIFICACIÓN DE CALIDAD Teresa M. Castellá-Abraham |  CHIEF OF QUALITY CERTIFICATION DEPT. RESPONSABLE DEL DEPTO. DE CERTIFICACIÓN DE CALIDAD Rafael Gutiérrez de Velasco Magallanes |

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