



REPORTE DE CALIDAD DE TUBERIA (Quality Report)

Cód: FP-DQ-08-01

SISTEMA DE GESTION DE CALIDAD
(QUALITY MANNAGMENT SYSTEM)

Edición(Edition Code): 0 Revisión (Revision): 1

Fecha de Rev (Date of Revisión):
04 Septiembre 2014

| Requerimiento (Request) | | 5002589 | | Cliente (Customer) | | ACEROS TEPOTZOTLAN | | Remisión (Remission) | | 5013395 | | Fecha (Date) | | 19/02/2016 | | REPORTE FS (Report No.) | | 19022016-19 | | |
|--|--|---------------|-------------------------------|--------------------|-------------------------------|--------------------|------------------------|----------------------|-----------------------------|------------|-----------------------|---------------|---|--------------------------|---|---|-------------------------------|---------------------------|------------|------------|
| Tipo de Producto (Type of Pipe/Delivery Condition) | Orden Interna de Fabricación (Work Order) | Medida (Size) | Espesor (Thickness) pulg (In) | | Espesor (Thickness) pulg (mm) | | Longitud (Length) mtrs | | Longitud (Length) pies (ft) | | Norma (Specification) | Grado (Grade) | Peso Unitario (mass) lbs. | Peso Unitario (mass) kg. | Peso Lineal (Mass per meter) lbs. X pie | Peso Lineal (Mass per meter) kg X mtr. | Números de Tubo (Pipe Number) | | | |
| HSS | 1223 | 8 X 8 | 0.375 | | 9.53 | | 12.20 | | 40.0 | | ASTM A500 | Grado B | 1508.2 | 684.2 | 37.69 | 56.08 | 44 | | | |
| No. Lote (Lote No.) | 1223-15-19 | 1223-15-20 | 1223-15-21 | 1223-16-2 | 1223-16-3 | 1223-16-4 | 1223-48-16 | 1223-48-17 | 1223-48-18 | 1223-49-10 | 1223-49-11 | 1223-49-12 | 1223-49-13 | 1223-49-14 | 1223-49-15 | 1223-49-6 | 1223-49-7 | 1223-49-8 | 1223-49-9 | 1223-56-14 |
| | 1223-56-15 | 1223-56-19 | 1223-57-6 | 1223-57-8 | 1223-57-9 | 1223-68-10 | 1223-68-11 | 1223-68-2 | 1223-68-3 | 1223-68-4 | 1223-68-5 | 1223-68-6 | 1223-68-7 | 1223-68-8 | 1223-68-9 | 1223-99-10 | 1223-99-11 | 1223-99-12 | 1223-99-13 | 1223-99-14 |
| | 1223-99-6 | 1223-99-7 | 1223-99-8 | 1223-99-9 | | | | | | | | | | | | | | | | |
| No. Colada (Heat) | Composición Química del Acero (Chemical Composition) | | | | | | | | | | | | Propiedades mecánicas del Acero de la Tubería (Steel Mechanical's Properties) | | | | | | | |
| | C | Si | Mn | P | S | V | Nb | Cr | Cu | Ni | Mo | CiW | Limite Tracción (Tensile Strength) KSI (MPA) | | | Limite Elástico (Yield Point) KSI (MPA) | | % Elongación (Elongation) | | |
| | 0.26 MAX. | | 1.35 MAX. | 0.035 MAX. | 0.035 MAX. | | | | | | | | L | T | W | L | T | | | |
| B0504495 | 0.063 | 0.029 | 0.485 | 0.012 | 0.005 | 0.00 | 0.00 | 0.03 | 0.01 | 0.00 | 0.00 | 0.178 | 60.1(413) | - | - | 52.9(361) | - | 40 | | |
| B0504498 | 0.071 | 0.026 | 0.471 | 0.020 | 0.008 | 0.00 | 0.00 | 0.03 | 0.00 | 0.01 | 0.00 | 0.186 | 59.1(406) | - | - | 49.8(342) | - | 41 | | |
| B1504761 | 0.055 | 0.025 | 0.467 | 0.010 | 0.006 | 0.01 | 0.00 | 0.03 | 0.00 | 0.00 | 0.01 | 0.185 | 59.8(411) | - | - | 53.4(367) | - | 37 | | |
| B2503127 | 0.063 | 0.011 | 0.466 | 0.005 | 0.006 | 0.00 | 0.00 | 0.04 | 0.00 | 0.01 | 0.00 | 0.194 | 58(400) | - | - | 46(315) | - | 43 | | |
| B2504843 | 0.060 | 0.025 | 0.483 | 0.009 | 0.004 | 0.00 | 0.00 | 0.05 | 0.01 | 0.01 | 0.00 | 0.200 | 61(419) | - | - | 56.3(387) | - | 33 | | |

Este certificado ampara los numeros de serie de los tubos manifestados, los cuales fueron fabricados, inspeccionados y aceptados de acuerdo a los requerimientos de las especificaciones arriba mencionadas; FORZA STEEL no garantiza al producto que sea utilizado inapropiadamente. ("There no is guarantee on the use of these products for applications that are outside of the scope of the specification, or the inappropriate use of them")

Autorizó (Approve):

ING. HUGO SANCHEZ VILLARREAL
Certificados y Pruebas Mecánicas Aseguramiento de Calidad
(Certificates and Mechanical Testing Quality Assurance)

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