



Commercial transaction

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| A02 Type of inspection document | Mill Certificate EN 10204 3.1 |
| A03 Document number | 1866645/001 |
| A05 Originator of the document | Factory Production Control |
| A07 Purchaser order number | 0334/2019/ZZS |
| A08 Manufacturer's work order number | 958722 |
| A09 Purchaser article number | TR-12456 |
| A97 Order position | 1 |
| A98 Delivery number | DN-1583836 |
| A99 Aviso number | AV-87682933 |

Supplementary information

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|----------------------------|-------------|
| A10 Buyer Reference Number | BRN-1583836 |
| A11 Buyer Reference Date | 10/23/2018 |

Production description

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|------------------------------------|---------------------------------------|
| B01 Product | Seamless Steel Tubes Hot Roild |
| B02 Specification of the product | |
| Steel designation | S355J2H, P355NH/TC1, E355+N |
| Product norm | EN 10219-1:2006 |
| Mass norm | EN 10220 |
| Material norm | EN 10297-1:2003-06 |
| B03 Any supplementary requirements | Ausführung lt. EN 10219 Teil 1+2 /--/ |
| B04 Delivery condition | normalized |
| B06 Marking of the product | SST 200x150x6 |
| B07 Identification of the product | 7282841 |
| B08 Number of pieces | 16 |
| B09 Product dimensions | |
| Form | Rectangular tube |
| Width | 200 mm |
| Height | 150 mm |
| Wall thickness | 6.5 mm |
| B10 Length | 12000 mm |
| B11 Product mass | 1.5 mm |
| B12 Theoretical mass | 5738.3 kg |
| B13 Actual mass | 5739.3 kg |

Supplementary information

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|---------|----------------------------|
| B99 B99 | 1607219/0001_20181023_1529 |
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Inspection

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|------------------|--------------------------|
| C00 Batch number | Charge Chemical Analysis |
|------------------|--------------------------|

Chemical composition

| | | | | | | | | | |
|-------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| C70 Steelmaking process | Y | | | | | | | | |
| | C71 | C72 | C73 | C74 | C75 | C76 | C77 | C78 | C79 |
| Symbol | C | Si | Mn | P | S | Al | Cr | Ni | Mo |
| Unit | % | % | % | % | % | % | % | % | % |
| Actual | 0.1500 | 0.0050 | 1.0000 | 0.0140 | 0.0070 | 0.0410 | 0.0200 | 0.0090 | 0.0020 |

Supplementary information

C110 Sample Identifier

10001011/175508

Inspection

C00 Batch number

Charge TensileTest

C02 Direction of the test piece

0001 längs

C03 Test temperature

-20 Celsius

Tensile test

C11 Yield or proof strength Streckgrenze ReH/RP0,2

377.12 MPa

C12 Tensile strength Zugfestigkeit Rm

456.18 MPa

C13 Elongation after fracture Bruchdehnung A5/A80

29.7 %

Supplementary information

C14 Re/Rm

0.83

C15 Sample Identifier

10001011/175508

Inspection

C00 Batch number

Charge HardnessTest

C03 Test temperature

-20 Celsius

Hardness test

C30 Method of test

Brunell

C31 Individual values

71.3, 84.2, 85.2J

C32 Mean value

80.3 J

min 78.5 J

max 90.6 J

Inspection

C00 Batch number

Charge NotchedImpactTest

C03 Test temperature

-20 Celsius

Notched bar impact test

C40 Type of test piece

0001 längs

C41 Width of test piece

5 mm

C42 Individual values

71.2, 84.2, 85.2J

C43 Mean value

80.3 J

min 78.5 J

max 90.6 J

Supplementary information

C44 Sample Identifier

10001011/175508

Other tests

D01 Marking, identification, surface appearance, shape and dimensional properties

Marking

Nondestructive tests

D02 Visual En 10219-1

100 %

Positive

D03 Non destructive test EN ISO 10893-2

100 %

Positive

D04 Dimensional Inspection EN 10219-2

1 Lot

Positive

Other product tests

D51 Tensile flattening test

100 %

Positive

Validation

Z01 Statement of compliance

We hereby certify, that the material described above has been tested and complies with the

Z04

terms of the order. This certificate has been created by a data processing system and does not contain a personal signature but the name and the official address of the appointed department.



Z02 Date of issue and validation

Z03 Stamp of the inspection representative

2018-10-23

John D. Keller
Quality Manager

Supplementary information

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Z06 Quality Department Fax

Z07 Quality Department Email

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Z09 Steel Mill Green Steel

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Data schema maintained by [Material Identity](#)

<https://schemas.materialidentity.org/en10168-schemas/v0.5.0/schema.json>