



## Commercial transaction

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

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

## Production description

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

B99 B99	1607219/0001_20181023_1529
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## Inspection

C00 Batch number	Charge Chemical Analysis
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## 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

## 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
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## Other tests

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

Z01 Statement of compliance	We hereby certify, that the material described above has been tested and complies with the	Z04
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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

23/10/2018

Z03 Stamp of the inspection representative

John D. Keller  
Quality Manager

#### Supplementary information

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Z08 Ultra Green Steel

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Z09 Steel Mill Green Steel



Data schema maintained by [Material Identity](#)

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