



ArcelorMittal Bremen GmbH
Postfach 210220
28222 BREMEN
Carl-Benz-Strasse 30
28237 BREMEN
Telefon 0421/6480
Telefax 0421/6482251

A02
CERTIFICATE
A03 Page: 01 / 04
20190056918-00
Inspection certificate 3.1 EN 10204
A05 ORIGINATOR OF THE DOCUMENT
ArcelorMittal Bremen GmbH
Abnahme/Zeugnisschreibung
zeugnisse.bremen@arcelormittal.com
Telefon 0421/6482813

A09 DISPATCH NOTE
DATE
0000897101
23.08.2019
A08.1 MANUFACTURER'S ORDER NR
DATE
AGENCY'S ORDER NR.
1947921
17.06.2019
FH93KON007003
A07 CUSTOMER'S ORDER NUMBER
1113011
A10 PART NUMBER
XR355158

A06.1 CUSTOMER
OY KONTINO AB
HAKINTIE, 6
01380 VANTAA
Finland
A06.2 CONSIGNEE
OY KONTINO AB
HAKINTIE, 6
01380 VANTAA
Finland

PRODUCT: hot rolled unpickled sheet

QUALITY: **AMSTRONG 355MC**
S355MC

STANDARD: **AM FCE**
EN 10149-2 (00-09-2013)

TERMS OF DELIVERY: **EN 10051 (2010)**

JITZ 1.76

ArcelorMittal Bremen GmbH, Postfach 210220, 28222 BREMEN

OY KONTINO AB

HAKINTIE, 6

01380 VANTAA

Finland



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 TERMS OF DELIVERY: **EN 10051 (2010)** **S355MC** **EN 10149-2 (00-09-2013)**

JITZ 1.76

| A08.2 ITEM | B09 THICKNES mm | B10 WIDTH mm | B11 LENGTH mm |
|---------------|-----------------------|--------------------|---------------------|
| 3 | 15.00 | 1500.00 | 3000.00 |

| A08.2 ITEM | B07.1 COILNO | B07.1 PART | B13 WEIGHT kg | B08 AMOUNT | B07.2 HEAT | CHEMICAL ANALYSIS | | | | | | | | | | | | | | | | | | |
|---------------|-------------------|---------------|---------------------|---------------|---------------|-------------------|---------|---------|--------|--------|---------|---------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|------|------|
| | | | | | | C71 | C73 | C72 | C74 | C75 | C81 | C77 | C76 | C83 | C84 | C78 | C82 | C79 | C80 | C85 | As | Sn | | |
| | | | | | | C % | Si % | Mn % | P % | S % | Cu % | Al % | N % | B % | V % | Ti % | Nb % | Cr % | Ni % | Mo % | As % | Sn % | | |
| 3 | 580924 4663730 | 00100 | 2125 | 4 | 064814 | .0739 | .0189 | .9610 | .0128 | .0021 | .0133 | .0342 | .0039 | .0001 | .0027 | .0014 | .0502 | .0345 | .0297 | .0037 | .0013 | .0016 | | |
| | | | | | | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| | 580924 4663731 | 00200 | 2130 | 4 | 064814 | .0739 | .0189 | .9610 | .0128 | .0021 | .0133 | .0342 | .0039 | .0001 | .0027 | .0014 | .0502 | .0345 | .0297 | .0037 | .0013 | .0016 | | |
| | | | | | | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| | 580924 4663732 | 00300 | 2130 | 4 | 064814 | .0739 | .0189 | .9610 | .0128 | .0021 | .0133 | .0342 | .0039 | .0001 | .0027 | .0014 | .0502 | .0345 | .0297 | .0037 | .0013 | .0016 | | |
| | | | | | | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| | 580924 4663733 | 00400 | 2130 | 4 | 064814 | .0739 | .0189 | .9610 | .0128 | .0021 | .0133 | .0342 | .0039 | .0001 | .0027 | .0014 | .0502 | .0345 | .0297 | .0037 | .0013 | .0016 | | |
| | | | | | | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| | 580924 4663734 | 00500 | 2130 | 4 | 064814 | .0739 | .0189 | .9610 | .0128 | .0021 | .0133 | .0342 | .0039 | .0001 | .0027 | .0014 | .0502 | .0345 | .0297 | .0037 | .0013 | .0016 | | |
| | | | | | | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| | 580924 4663735 | 00600 | 2135 | 4 | 064814 | .0739 | .0189 | .9610 | .0128 | .0021 | .0133 | .0342 | .0039 | .0001 | .0027 | .0014 | .0502 | .0345 | .0297 | .0037 | .0013 | .0016 | | |
| | | | | | | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| | 580924 4663736 | 00700 | 2135 | 4 | 064814 | .0739 | .0189 | .9610 | .0128 | .0021 | .0133 | .0342 | .0039 | .0001 | .0027 | .0014 | .0502 | .0345 | .0297 | .0037 | .0013 | .0016 | | |
| | | | | | | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| | 580924 4663737 | 00800 | 2135 | 4 | 064814 | .0739 | .0189 | .9610 | .0128 | .0021 | .0133 | .0342 | .0039 | .0001 | .0027 | .0014 | .0502 | .0345 | .0297 | .0037 | .0013 | .0016 | | |
| | | | | | | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| | 580924 4663738 | 00900 | 2135 | 4 | 064814 | .0739 | .0189 | .9610 | .0128 | .0021 | .0133 | .0342 | .0039 | .0001 | .0027 | .0014 | .0502 | .0345 | .0297 | .0037 | .0013 | .0016 | | |
| | | | | | | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| | 580924 4663747 | 01000 | 1065 | 2 | 064814 | .0739 | .0189 | .9610 | .0128 | .0021 | .0133 | .0342 | .0039 | .0001 | .0027 | .0014 | .0502 | .0345 | .0297 | .0037 | .0013 | .0016 | | |
| | | | | | | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| | | 10 | 20250 | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | | 10 | 20250 | | | | | | | | | | | | | | | | | | | | | |

| | | | |
|---|---|-------------------------|--|
| C02 test direction relating to rolling direction (0°= L; 90°= T) | C04 specimen condition V:aged F:fresh N:normalised | C50 bend test 1:good | C43 result in J related to specimensize (C44) |
|---|---|-------------------------|--|



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 A07 CUSTOMER'S ORDER NUMBER
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 A10 PART NUMBER
 XR355158

A06.1 CUSTOMER
OY KONTINO AB
HAKINTIE, 6
01380 VANTAA
Finland
 A06.2 CONSIGNEE
OY KONTINO AB
HAKINTIE, 6
01380 VANTAA
Finland

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 TERMS OF DELIVERY: **EN 10051 (2010)** **S355MC** **EN 10149-2 (00-09-2013)**

JITZ 1.76

| A08.2 ITEM | B09 THICKNES mm | B10 WIDTH mm | B11 LENGTH mm |
|---------------|-----------------------|--------------------|---------------------|
| 3 | 15.00 | 1500.00 | 3000.00 |

| A08.2 ITEM | B07.1 COILNO | B07.1 PART | B13 WEIGHT kg | B08 AMOUNT | B07.2 HEAT | TENSILE TEST | | | | | | BEND TEST | | SHOCK TEST | | | | | |
|---------------|-----------------|---------------|---------------------|---------------|---------------|--------------|-----|------------|-----------------------|-----------------------|-------------|-----------|-----------------------|------------|------------|------------|------------|------------|------------|
| | | | | | | C02 | C04 | C03 | C11 | C12 | C13 | C50 | C44 | C02 | C03 | C42 | C42 | C42 | C43 |
| | | | | | | PR ° | MAZ | Temp °C | yield p. Re MPa | strength Rm MPa | A120mm % | Fa | S0 cm ² | PR ° | Temp °C | KV2_1 J | KV2_2 J | KV2_3 J | KV2_m J |
| 3 | 580924 | 00100 | 2125 | 4 | 064814 | 0 | F | 20 | 400 | 502 | 29.5 | 1 | .8 | 0 | -20 | 278 | 310 | 313 | 300 |
| | 4663730 | | | | 064814 | 90 | F | 20 | 433 | 519 | 26.5 | | | | | | | | |
| | 580924 | 00200 | 2130 | 4 | 064814 | 0 | F | 20 | 400 | 502 | 29.5 | 1 | .8 | 0 | -20 | 278 | 310 | 313 | 300 |
| | 4663731 | | | | 064814 | 90 | F | 20 | 433 | 519 | 26.5 | | | | | | | | |
| | 580924 | 00300 | 2130 | 4 | 064814 | 0 | F | 20 | 400 | 502 | 29.5 | 1 | .8 | 0 | -20 | 278 | 310 | 313 | 300 |
| | 4663732 | | | | 064814 | 90 | F | 20 | 433 | 519 | 26.5 | | | | | | | | |
| | 580924 | 00400 | 2130 | 4 | 064814 | 0 | F | 20 | 400 | 502 | 29.5 | 1 | .8 | 0 | -20 | 278 | 310 | 313 | 300 |
| | 4663733 | | | | 064814 | 90 | F | 20 | 433 | 519 | 26.5 | | | | | | | | |
| | 580924 | 00500 | 2130 | 4 | 064814 | 0 | F | 20 | 400 | 502 | 29.5 | 1 | .8 | 0 | -20 | 278 | 310 | 313 | 300 |
| | 4663734 | | | | 064814 | 90 | F | 20 | 433 | 519 | 26.5 | | | | | | | | |
| | 580924 | 00600 | 2135 | 4 | 064814 | 0 | F | 20 | 400 | 502 | 29.5 | 1 | .8 | 0 | -20 | 278 | 310 | 313 | 300 |
| | 4663735 | | | | 064814 | 90 | F | 20 | 433 | 519 | 26.5 | | | | | | | | |
| | 580924 | 00700 | 2135 | 4 | 064814 | 0 | F | 20 | 400 | 502 | 29.5 | 1 | .8 | 0 | -20 | 278 | 310 | 313 | 300 |
| | 4663736 | | | | 064814 | 90 | F | 20 | 433 | 519 | 26.5 | | | | | | | | |
| | 580924 | 00800 | 2135 | 4 | 064814 | 0 | F | 20 | 400 | 502 | 29.5 | 1 | .8 | 0 | -20 | 278 | 310 | 313 | 300 |
| | 4663737 | | | | 064814 | 90 | F | 20 | 433 | 519 | 26.5 | | | | | | | | |
| | 580924 | 00900 | 2135 | 4 | 064814 | 0 | F | 20 | 400 | 502 | 29.5 | 1 | .8 | 0 | -20 | 278 | 310 | 313 | 300 |
| | 4663738 | | | | 064814 | 90 | F | 20 | 433 | 519 | 26.5 | | | | | | | | |
| | 580924 | 01000 | 1065 | 2 | 064814 | 0 | F | 20 | 400 | 502 | 29.5 | 1 | .8 | 0 | -20 | 278 | 310 | 313 | 300 |
| | 4663747 | | | | 064814 | 90 | F | 20 | 433 | 519 | 26.5 | | | | | | | | |
| | | | 10 | | | 20250 | | | | | | | | | | | | | |
| TOTAL | | | 10 | | | 20250 | | | | | | | | | | | | | |

We certify hereby that the delivery complies with the above mentioned specification.

| | | | |
|---|---|-------------------------|--|
| C02 test direction relating to rolling direction (0°= L; 90°= T) | C04 specimen condition V:aged F:fresh N:normalised | C50 bend test 1:good | C43 result in J related to specimensize (C44) |
|---|---|-------------------------|--|



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JITZ 1.76

| A08.2 ITEM | B09 THICKNES mm | B10 WIDTH mm | B11 LENGTH mm |
|---------------|-----------------------|--------------------|---------------------|
| 3 | 15.00 | 1500.00 | 3000.00 |



BREMEN 23.08.2019

QUALITY DEPARTMENT
 SITE EXPERT FOR INSPECTION
 Kramer

Jarkko Kramer

| | | | |
|---|---|-------------------------|--|
| C02 test direction relating to rolling direction (0°= L; 90°= T) | C04 specimen condition V:aged F:fresh N:normalised | C50 bend test 1:good | C43 result in J related to specimensize (C44) |
|---|---|-------------------------|--|