



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

A02
CERTIFICATE
A03 Page: 01 / 03
20190081284-00
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
0000932618
19.12.2019
A08.1 MANUFACTURER'S ORDER NR
DATE
AGENCY'S ORDER NR. GH01HTH001006
1956485
08.11.2019
A07 CUSTOMER'S ORDER NUMBER
13403/13403/006
A10 PART NUMBER
AMSTRONG355MC_PICKLED

A06.1 CUSTOMER
HTM YHTIOT OY
TIILITEHTAANTIE 23
12310 RYTTYLAE
Finland
A06.2 CONSIGNEE
HTM YHTIOT OY
TIILITEHTAANTIE 23
12310 RYTTYLAE
Finland

PRODUCT: hot rolled pickled coil

QUALITY: AMSTRONG@355MC
S355MC

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

TERMS OF DELIVERY: EN 10051 (2010)

JITZ 1.78

ArcelorMittal Bremen GmbH, Postfach 210220, 28222 BREMEN

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PRODUCT: hot rolled pickled coil QUALITY: **AMSTRONG@355MC** STANDARD: **AM FCE**
 TERMS OF DELIVERY: **EN 10051 (2010)** **S355MC** **EN 10149-2 (00-09-2013)**

JITZ 1.78

| A08.2 ITEM | B09 THICKNES mm | B10 WIDTH mm |
|------------|-----------------|--------------|
| 6 | 5.00 | 1500.00 |

| A08.2 ITEM | B07.1 COILNO | B07.1 PART | B13 WEIGHT kg | 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 % |
| 6 | 604004 | 50000 | 11880 | 020440 | .0684 | .0114 | .5325 | .0147 | .0058 | .0082 | .0291 | .0042 | .0001 | .0021 | .0015 | .0220 | .0248 | .0248 | .0020 | .0007 | .0008 |
| | | | | | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| 6 | 604004 | 50100 | 12540 | 020440 | .0684 | .0114 | .5325 | .0147 | .0058 | .0082 | .0291 | .0042 | .0001 | .0021 | .0015 | .0220 | .0248 | .0248 | .0020 | .0007 | .0008 |
| | | | | | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| 6 | 621103 | 50000 | 8460 | 020441 | .0689 | .0122 | .5271 | .0125 | .0056 | .0076 | .0366 | .0043 | .0001 | .0010 | .0015 | .0224 | .0214 | .0248 | .0019 | .0007 | .0009 |
| | | | | | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| | | | 3 | | 32880 | | | | | | | | | | | | | | | | |
| TOTAL | | | 3 | | 32880 | | | | | | | | | | | | | | | | |

| A08.2 ITEM | B07.1 COILNO | B07.1 PART | B13 WEIGHT kg | B07.2 HEAT | TENSILE TEST | | | | | | BENDTEST | | 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 | A55mm % | Fa | S0 cm² | PR ° | Temp °C | KV2_1 J | KV2_2 J | KV2_3 J | KV2_m J |
| 6 | 604004 | 50000 | 11880 | 020440 | 0 | F | 20 | 403 | 486 | 34 | 1 | .8 | 0 | -20 | 196 | 184 | 186 | 188 |
| | | | | | 90 | F | 20 | 407 | 481 | 32 | | | | | | | | |
| 6 | 604004 | 50100 | 12540 | 020440 | 0 | F | 20 | 403 | 486 | 34 | 1 | .8 | 0 | -20 | 196 | 184 | 186 | 188 |
| | | | | | 90 | F | 20 | 407 | 481 | 32 | | | | | | | | |
| 6 | 621103 | 50000 | 8460 | 020441 | 0 | F | 20 | 403 | 486 | 34 | 1 | .8 | 0 | -20 | 196 | 228 | 214 | 212 |
| | | | | | 90 | F | 20 | 407 | 481 | 32.5 | | | | | | | | |
| | | | 3 | | 32880 | | | | | | | | | | | | | |
| TOTAL | | | 3 | | 32880 | | | | | | | | | | | | | |

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

JITZ 1.78

| A08.2 | B09 | B10 |
|-------|----------|---------|
| ITEM | THICKNES | WIDTH |
| | mm | mm |
| 6 | 5.00 | 1500.00 |

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



QUALITY DEPARTMENT
 SITE EXPERT FOR INSPECTION
 BREMEN 20.12.2019
 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) |
|---|---|-------------------------|--|