



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
20230022008-00

Inspection certificate 3.1 EN 10204

A05 ORIGINATOR OF THE DOCUMENT
ArcelorMittal Bremen GmbH
Carl-Benz-Straße 30, 28237 Bremen
zeugnisse.bremen@arcelormittal.com
Telefon 0421/6482813

A09 DISPATCH NOTE
DATE 0000315324
21.03.2023
SHIP WILSON LOVIISA

A08.1 MANUFACTURER'S ORDER NR **2229558**
DATE 11.11.2022
AGENCY'S ORDER NR. GH31FEH001023

A07 CUSTOMER'S ORDER NUMBER
45082

A10 PART NUMBER
2462400

A06.1 CUSTOMER
FEON OY

**Teollisuuskatu 33
00510 Helsinki
Finland**

A06.2 CONSIGNEE
Feon OY

**Hepokarintie 9
23500 UUSIKAUPUNKI
Finland**

PRODUCT: **hot rolled unpickled coil**
TERMS OF DELIVERY: **EN 10051 (2010)**

QUALITY: **AMSTRONG@355MC**
S355MC

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

JITZ 1.81

ArcelorMittal Bremen GmbH, Postfach 210220, 28222 BREMEN

FEON OY

Teollisuuskatu 33
00510 Helsinki
Finland



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

A02 CERTIFICATE
A03 Page: 02/ 03
20230022008-00
 Inspection certificate 3.1 EN 10204
 A05 ORIGINATOR OF THE DOCUMENT
 ArcelorMittal Bremen GmbH
 Carl-Benz-Straße 30, 28237 Bremen
 zeugnisse.bremen@arcelormittal.com
 Telefon 0421/6482813

A09 DISPATCH NOTE
 DATE 21.03.2023
 SHIP WILSON LOVIISA
 A08.1 MANUFACTURER'S ORDER NR **2229558**
 DATE 11.11.2022
 AGENCY'S ORDER NR. GH31FEH001023
 A07 CUSTOMER'S ORDER NUMBER
 45082
 A10 PART NUMBER
 2462400

A06.1 CUSTOMER
FEON OY
 Teollisuuskatu 33
 00510 Helsinki
 Finland
 A06.2 CONSIGNEE
Feon OY
 Hepokarintie 9
 23500 UUSIKAUPUNKI
 Finland

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

JITZ 1.81

| | | |
|-------|----------|---------|
| A08.2 | B09 | B10 |
| ITEM | THICKNES | WIDTH |
| | mm | mm |
| 23 | 15.00 | 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 % |
| 23 | 656141 | 00000 | 33400 | 056458 | .0727 | .0109 | .7371 | .0103 | .0031 | .0356 | .0335 | .0047 | .0000 | .0011 | .0005 | .0428 | .0318 | .0292 | .0030 | .0014 | .0031 |
| | | | | 056458 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| 656142 | 00000 | 31840 | 056459 | .0755 | .0107 | .7434 | .0112 | .0050 | .0313 | .0370 | .0054 | .0000 | .0012 | .0005 | .0422 | .0342 | .0295 | .0035 | .0012 | .0031 | |
| | | | | 056459 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| 656143 | 00000 | 30360 | 056458 | .0727 | .0109 | .7371 | .0103 | .0031 | .0356 | .0335 | .0047 | .0000 | .0011 | .0005 | .0428 | .0318 | .0292 | .0030 | .0014 | .0031 | |
| | | | 056458 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| 656144 | 00000 | 30320 | 056458 | .0727 | .0109 | .7371 | .0103 | .0031 | .0356 | .0335 | .0047 | .0000 | .0011 | .0005 | .0428 | .0318 | .0292 | .0030 | .0014 | .0031 | |
| | | | 056458 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| 656145 | 00000 | 33400 | 056458 | .0727 | .0109 | .7371 | .0103 | .0031 | .0356 | .0335 | .0047 | .0000 | .0011 | .0005 | .0428 | .0318 | .0292 | .0030 | .0014 | .0031 | |
| | | | 056458 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| 656146 | 00000 | 33560 | 056450 | .0725 | .0192 | .6954 | .0137 | .0042 | .0265 | .0387 | .0045 | .0000 | .0031 | .0026 | .0424 | .0272 | .0289 | .0028 | .0012 | .0025 | |
| | | | 056450 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| | | | 6 | 192880 | | | | | | | | | | | | | | | | | |
| TOTAL | | | 6 | 192880 | | | | | | | | | | | | | | | | | |

| 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 | yield p. | Re | Rm | Al20mm | Fa | S0 | PR | Temp | KV2VP_1 | KV2VP_2 | KV2VP_3 |
| | | | | | | strength | | | | | | | | | | | | |
| | | | | | | MPa | | MPa | | % | | | | | | | | |
| | | | | | | °C | | °C | | °C | | J | | J | | | | |
| 23 | 656141 | 00000 | 33400 | 056458 | 0 | F | 20 | 378 | 477 | 30.5 | 1 | .8 | 0 | -20 | 167 | 83 | 96 | 115 |
| | | | | 056458 | 90 | F | 20 | 407 | 503 | 27.5 | | | | | | | | |
| 656142 | 00000 | 31840 | 056459 | 0 | F | 20 | 393 | 475 | 33 | 1 | .8 | 0 | -20 | 171 | 190 | 172 | 177 | |
| | | | | 056459 | 90 | F | 20 | 404 | 482 | 28 | | | | | | | | |

| | | | |
|---|---|-------------------------|--|
| 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) |
|---|---|-------------------------|--|



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

A02 CERTIFICATE
A03 Page: 03/ 03
20230022008-00
 Inspection certificate 3.1 EN 10204
 A05 ORIGINATOR OF THE DOCUMENT
 ArcelorMittal Bremen GmbH
 Carl-Benz-Straße 30, 28237 Bremen
 zeugnisse.bremen@arcelormittal.com
 Telefon 0421/6482813

A09 DISPATCH NOTE
 DATE 21.03.2023
 SHIP WILSON LOVIISA
 A08.1 MANUFACTURER'S ORDER NR **2229558**
 DATE 11.11.2022
 AGENCY'S ORDER NR. GH31FEH001023
 A07 CUSTOMER'S ORDER NUMBER
 45082
 A10 PART NUMBER
 2462400

A06.1 CUSTOMER
FEON OY
 Teollisuuskatu 33
 00510 Helsinki
 Finland
 A06.2 CONSIGNEE
Feon OY
 Hepokarintie 9
 23500 UUSIKAUPUNKI
 Finland

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

JITZ 1.81

| A08.2 ITEM | B09 THICKNES mm | B10 WIDTH mm |
|------------|-----------------|--------------|
| 23 | 15.00 | 1500.00 |

| A08.2 ITEM | B07.1 COILNO | B07.1 PART | B13 WEIGHT kg | B07.2 HEAT | TENSILE TEST | | | | | | BENDTEST | SHOCK TEST | | | | | | |
|------------|--------------|------------|---------------|------------|--------------|---------|-------------|---------------------|---------------------|--------------|----------|------------------------|----------|-------------|---------------|---------------|---------------|---------------|
| | | | | | C02 PR ° | C04 MAZ | C03 Temp °C | C11 yield p. Re MPa | C12 strength Rm MPa | C13 A120mm % | C50 Fa | C44 S0 cm ² | C02 PR ° | C03 Temp °C | C42 KV2VP_1 J | C42 KV2VP_2 J | C42 KV2VP_3 J | C43 KV2VP_m J |
| 23 | 656143 | 00000 | 30360 | 056458 | 0 | F | 20 | 393 | 471 | 31 | 1 | .8 | 0 | -20 | 154 | 115 | 172 | 147 |
| | | | | 056458 | 90 | F | 20 | 396 | 478 | 27.5 | | | | | | | | |
| | 656144 | 00000 | 30320 | 056458 | 0 | F | 20 | 390 | 470 | 30 | 1 | .8 | 0 | -20 | 201 | 177 | 138 | 172 |
| | | | | 056458 | 90 | F | 20 | 426 | 480 | 27 | | | | | | | | |
| | 656145 | 00000 | 33400 | 056458 | 0 | F | 20 | 378 | 461 | 35.5 | 1 | .8 | 0 | -20 | 227 | 232 | 240 | 233 |
| | | | | 056458 | 90 | F | 20 | 392 | 469 | 33.5 | | | | | | | | |
| | 656146 | 00000 | 33560 | 056450 | 0 | F | 20 | 355 | 441 | 33.5 | 1 | .8 | 0 | -20 | 286 | 283 | 208 | 259 |
| | | | | 056450 | 90 | F | 20 | 385 | 451 | 31 | | | | | | | | |
| | | | 6 | | 192880 | | | | | | | | | | | | | |
| TOTAL | | 6 | 192880 | | | | | | | | | | | | | | | |

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

BREMEN 22.03.2023



QUALITY DEPARTMENT
 SITE EXPERT FOR INSPECTION
 Kochanowski

Kochanowski

| | | | |
|--|--|----------------------|---|
| 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) |
|--|--|----------------------|---|