



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 |
| 20230047944-00 | |

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 22.06.2023
SHIP ANJA

A08.1 MANUFACTURER'S ORDER NR **2335398**
DATE 27.01.2023
AGENCY'S ORDER NR. GH32FEH003020

A07 CUSTOMER'S ORDER NUMBER
46004

A10 PART NUMBER
2463340

A06.1 CUSTOMER
FEON OY
Teollisuuskatu 33
00510 Helsinki
Finland

A06.2 CONSIGNEE
Feon OY
Hepokarintie 9
23500 UUSIKAUPUNKI
Finland

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 1.82

ArcelorMittal Bremen GmbH, Postfach 210220, 28222 BREMEN

FEON OY

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00510 Helsinki
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| A08.2 ITEM | B09 THICKNES mm | B10 WIDTH mm |
|------------|-----------------|--------------|
| 20 | 6.00 | 1500.00 |

| A08.2 ITEM | B07.1 COILNO | B07.1 PART | B13 WEIGHT kg | B07.2 HEAT | CHEMICAL ANALYSIS | | | | | | | | | | | | | | | | As % | Sn % | |
|------------|--------------|------------|---------------|------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| | | | | | C71 | C73 | C72 | C74 | C75 | C81 | C77 | C76 | C83 | C84 | C78 | C82 | C79 | C80 | C85 | | | | |
| | | | | | C % | Si % | Mn % | P % | S % | Cu % | Al % | N % | B % | V % | Ti % | Nb % | Cr % | Ni % | Mo % | | | | |
| 20 | 225291 | 500 | 30640 | 057364 | .0696 | .0106 | .5441 | .0090 | .0061 | .0260 | .0280 | .0043 | .0000 | .0027 | .0013 | .0229 | .0344 | .0399 | .0044 | .0011 | .0018 | 0000 | 0000 |
| | | | | 057364 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | | |
| 225293 | 500 | 33780 | 33780 | 057365 | .0707 | .0107 | .5643 | .0075 | .0044 | .0260 | .0318 | .0045 | .0000 | .0025 | .0011 | .0233 | .0278 | .0373 | .0034 | .0009 | .0018 | 0000 | 0000 |
| | | | | 057365 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | | |
| 280257 | 500 | 31860 | 31860 | 057480 | .0722 | .0196 | .5474 | .0103 | .0027 | .0083 | .0428 | .0046 | .0000 | .0031 | .0009 | .0255 | .0220 | .0275 | .0019 | .0015 | .0013 | 0000 | 0000 |
| | | | | 057480 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | | |
| 327295 | 500 | 33640 | 33640 | 058600 | .0717 | .0157 | .5368 | .0095 | .0041 | .0146 | .0396 | .0037 | .0001 | .0018 | .0009 | .0243 | .0318 | .0365 | .0036 | .0013 | .0008 | 0000 | 0000 |
| | | | | 058600 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | | |
| 385276 | 500 | 30760 | 30760 | 058360 | .0676 | .0099 | .5228 | .0141 | .0062 | .0120 | .0349 | .0052 | .0000 | .0021 | .0007 | .0224 | .0286 | .0330 | .0031 | .0017 | .0012 | 0000 | 0000 |
| | | | | 058360 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | | |
| | | 5 | 160680 | | | | | | | | | | | | | | | | | | | | |
| TOTAL | | 5 | 160680 | | | | | | | | | | | | | | | | | | | | |

| 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 Re MPa | p. strength Rm MPa | A60mm % | Fa | S0 cm² | PR ° | Temp °C | KV2VP_1 J | KV2VP_2 J | KV2VP_3 J | KV2VP_m J |
| 20 | 225291 | 500 | 30640 | 057364 | 0 | F | 20 | 403 | 486 | 34 | 1 | .8 | 0 | -20 | 214 | 232 | 210 | 218 |
| | | | | 057364 | 90 | F | 20 | 408 | 482 | 32.5 | | | | | | | | |
| 225293 | 500 | 33780 | 33780 | 057365 | 0 | F | 20 | 404 | 488 | 34 | 1 | .8 | 0 | -20 | 188 | 192 | 198 | 192 |
| | | | | 057365 | 90 | F | 20 | 407 | 483 | 32 | | | | | | | | |
| 280257 | 500 | 31860 | 31860 | 057480 | 0 | F | 20 | 414 | 495 | 33.5 | 1 | .8 | 0 | -20 | 217 | 197 | 228 | 214 |
| | | | | 057480 | 90 | F | 20 | 423 | 491 | 31.5 | | | | | | | | |

| | | | |
|--|--|----------------------|---|
| 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 1.82

| | | |
|-------|----------|---------|
| A08.2 | B09 | B10 |
| ITEM | THICKNES | WIDTH |
| | mm | mm |
| 20 | 6.00 | 1500.00 |

| A08.2 | B07.1 | B07.1 | B13 | B07.2 | TENSILE TEST | | | | | | | BEND TEST | | SHOCK TEST | | | | |
|-------|--------|-------|--------|--------|--------------|-----|------|-------|-------------|-------|-----|-----------------|-----|------------|---------|---------|---------|---------|
| | | | | | C02 | C04 | C03 | C11 | C12 | C13 | C50 | C44 | C02 | C03 | C42 | C42 | C42 | C43 |
| | | | | | PR | MAZ | Temp | yield | p. strength | A60mm | Fa | S0 | PR | Temp | KV2VP_1 | KV2VP_2 | KV2VP_3 | KV2VP_m |
| ITEM | COILNO | PART | WEIGHT | HEAT | ° | ° | °C | Re | Rm | % | | cm ² | ° | °C | J | J | J | J |
| 20 | 327295 | 500 | 33640 | 058600 | 0 | F | 20 | 404 | 487 | 34 | 1 | .8 | 0 | -20 | 214 | 212 | 208 | 211 |
| | | | | 058600 | 90 | F | 20 | 409 | 483 | 32 | | | | | | | | |
| | 385276 | 500 | 30760 | 058360 | 0 | F | 20 | 402 | 486 | 34 | 1 | .8 | 0 | -20 | 214 | 224 | 216 | 218 |
| | | | | 058360 | 90 | F | 20 | 406 | 481 | 33 | | | | | | | | |
| | | 5 | 160680 | | | | | | | | | | | | | | | |
| TOTAL | | 5 | 160680 | | | | | | | | | | | | | | | |

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

BREMEN 23.06.2023



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