



INSPECTION CERTIFICATE (3.1) - Chemical analysis
TEST REPORT (2.2) - Mechanical properties

Date: 2012-02-13

Certificate number: EC22324985 rev. 0

Our order: 15549799
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20120207

Your order: 20031025253
Your reference:
Your fax number:
Your e-mail:

Invoice address
ZEVIJ B.V. LASAULEC CENTRAAL HVEEN
Lidhr. 400
POSTBUS 447
4900 AK OOSTERHOUT
Netherlands

Receiver of certificate

Delivery address
LASAULEC CENTRAAL B.V.
Lidhr. 400
KUPER 2
8447 GK HEERENVEEN
Netherlands

DELIVERY

Lot number: PV202784026X

Quantity: 1008 BX

PRODUCT

Brand: ESAB
Description: OK Autrod 12.56 1.0mm 18kg
Item number: 1256107710

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

CLASSIFICATIONS

EN ISO 14341-A G3Si1
EN ISO 14341-A G38 2 C1 3Si1
EN ISO 14341-A G42 3 M21 3Si1

Wire/strip

Auxiliary:

C 0.07%
Si 0.89%
Mn 1.51%
P 0.013%
S 0.008%
Cr 0.08%
Ni 0.04%
Mo 0.01%
Cu 0.10%
V <0.01%
Al <0.01%
Ti+Zr 0.01%

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21
Condition:

TENSILE

Rel Rm A4-A5
440 MPa 530 MPa 26 %

IMPACT

Temp KV
-30 °C 70 J

COMMENTS

Product supplied under a QA Programme fulfilling the EN ISO 9001 standard.
This certificate is produced electronically and is valid without signature.
Please refer any queries to:
Esab Nederland BV - P.O. Box 2236, 3800 CE Amersfoort, Nederland

Validation - Chemical Analysis

Milan Macek

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



INSPECTION CERTIFICATE (3.1) - Chemical analysis TEST REPORT (2.2) - Mechanical properties

Date: 2011-05-09

Certificate number: EC21976038 rev. 0

Our order: 15477230
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20110331

Your order: 20030960166
Your reference:
Your fax number:
Your e-mail:

Invoice address
ZEVIJ B.V. LASAULEC CENTRAAL HVEEN
Lidnr. 400
POSTBUS 447
4900 AK OOSTERHOUT
Netherlands

Receiver of certificate

Delivery address
LASAULEC CENTRAAL B.V.
Lidnr. 400
KUPER 2
8447 GK HEERENVEEN
Netherlands

DELIVERY

Lot number: PV117765054X

Quantity: 2016 KG

PRODUCT

Brand: ESAB
Description: OK Autrod 12.56 1.0mm 18kg
Item number: 1256107710

CLASSIFICATIONS

EN ISO 14341-A G 42 3 M G3Si1
EN ISO 14341-A G3Si1
EN ISO 14341-A G38 2 C G3Si1

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21
Condition:

TENSILE

<u>ReL</u>	<u>Rm</u>	<u>A4-A5</u>
440 MPa	530 MPa	26 %

IMPACT

<u>Temp</u>	<u>KV</u>
-30 °C	70 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.09%
Si	0.83%
Mn	1.44%
P	0.013%
S	0.009%
Cr	0.04%
Ni	0.01%
Mo	0.01%
Cu	0.09%
V	< 0.01%
Al	< 0.01%
Ti+Zr	< 0.01%

COMMENTS

Product supplied under a QA Programme fulfilling the EN ISO 9001 standard.
This certificate is produced electronically and is valid without signature.
Please refer any queries to:

Esab Nederland BV - P.O. Box 2236, 3800 CE Amersfoort, Nederland

Validation - Chemical Analysis

Josef Mysak

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



INSPECTION CERTIFICATE (3.1) - Chemical analysis
TEST REPORT (2.2) - Mechanical properties

Date: 2012-03-29

Certificate number: EC22387462 rev. 0

Our order: 15557152
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20120323

Your order: 20031036896
Your reference:
Your fax number:
Your e-mail:

Invoice address
ZEVIJ B.V. LASAULEC CENTRAAL HVEEN
Lidhr. 400
POSTBUS 447
4900 AK OOSTERHOUT
Netherlands

Receiver of certificate

Delivery address
LASAULEC CENTRAAL B.V.
Lidhr. 400
KUPER 2
8447 GK HEERENVEEN
Netherlands

DELIVERY

Lot number: PV209790086X

Quantity: 1008 BX

PRODUCT

Brand: ESAB
Description: OK Autrod 12.56 1.0mm 18kg
Item number: 1256107710

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

CLASSIFICATIONS

EN ISO 14341-A G 3Si1
EN ISO 14341-A G 38 2 C1 3Si1
EN ISO 14341-A G 42 3 M21 3Si1

C 0.08%
Si 0.84%
Mn 1.47%
P 0.013%
S 0.011%
Cr 0.03%
Ni 0.02%
Mo < 0.01%
Cu 0.10%
V < 0.01%
Al < 0.01%
Ti+Zr < 0.01%

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21
Condition:

TENSILE

Rel Rm A4-A5
440 MPa 530 MPa 26 %

IMPACT

Temp KV
-30 °C 70 J

COMMENTS

Product supplied under a QA Programme fulfilling the EN ISO 9001 standard.
This certificate is produced electronically and is valid without signature.
Please refer any queries to:

Esab Nederland BV - P.O. Box 2236, 3800 CE Amersfoort, Nederland

Validation - Chemical Analysis

Milan Macek

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



INSPECTION CERTIFICATE (3.1) - Chemical analysis
TEST REPORT (2.2) - Mechanical properties

Date: 2012-02-13

Certificate number: EC22324984 rev. 0

Our order: 15549799
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20120207

Your order: 20031025253
Your reference:
Your fax number:
Your e-mail:

Invoice address
ZEVIJ B.V. LASAULEC CENTRAAL HVEEN
Lidhr. 400
POSTBUS 447
4900 AK OOSTERHOUT
Netherlands

Receiver of certificate

Delivery address
LASAULEC CENTRAAL B.V.
Lidhr. 400
KUPER 2
8447 GK HEERENVEEN
Netherlands

DELIVERY

Lot number: PV201036067X

Quantity: 1008 BX

PRODUCT

Brand: ESAB
Description: OK Autrod 12.56 1.0mm 18kg
Item number: 1256107710

CLASSIFICATIONS

EN ISO 14341-A G 3Si1
EN ISO 14341-A G 38 2 C1 3Si1
EN ISO 14341-A G 42 3 M21 3Si1

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.07%
Si	0.86%
Mn	1.48%
P	0.013%
S	0.014%
Cr	0.05%
Ni	0.06%
Mo	0.01%
Cu	0.14%
V	< 0.01%
Al	< 0.01%
Ti+Zr	0.01%

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21
Condition:

TENSILE

<u>ReL</u>	<u>Rm</u>	<u>A4-A5</u>
440 MPa	530 MPa	26 %

IMPACT

<u>Temp</u>	<u>KV</u>
-30 °C	70 J

COMMENTS

Product supplied under a QA Programme fulfilling the EN ISO 9001 standard.
This certificate is produced electronically and is valid without signature.
Please refer any queries to:
Esab Nederland BV - P.O. Box 2236, 3800 CE Amersfoort, Nederland

Validation - Chemical Analysis

Milan Macek

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



INSPECTION CERTIFICATE (3.1) - Chemical analysis
TEST REPORT (2.2) - Mechanical properties

Date: 2012-02-24

Certificate number: EC22341229 rev. 0

Our order: 15551521
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20120217

Your order: 20031028620
Your reference:
Your fax number:
Your e-mail:

Invoice address
ZEVIJ B.V. LASAULEC CENTRAAL HVEEN
Lidhr. 400
POSTBUS 447
4900 AK OOSTERHOUT
Netherlands

Receiver of certificate

Delivery address
LASAULEC CENTRAAL B.V.
Lidhr. 400
KUPER 2
8447 GK HEERENVEEN
Netherlands

DELIVERY

Lot number: PV202036121X

Quantity: 3024 BX

PRODUCT

Brand: ESAB
Description: CK Autrod 12.56 1.0mm 18kg
Item number: 1256107710

CLASSIFICATIONS

EN ISO 14341-A G3Si1
EN ISO 14341-A G38 2 C1 3Si1
EN ISO 14341-A G42 3 M21 3Si1

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21
Condition:

TENSILE

Rel Rm A4-A5
440 MPa 530 MPa 26 %

IMPACT

Temp KV
-30 °C 70 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.07%
Si	0.81%
Mn	1.47%
P	0.020%
S	0.016%
Cr	0.05%
Ni	0.03%
Mo	0.01%
Cu	0.12%
V	< 0.01%
Al	< 0.01%
Ti+Zr	0.01%

COMMENTS

Product supplied under a QA Programme fulfilling the EN ISO 9001 standard.

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Please refer any queries to:

Esab Nederland BV - P.O. Box 2236, 3800 CE Amersfoort, Nederland

Validation - Chemical Analysis

Milan Macek

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



INSPECTION CERTIFICATE (3.1) - Chemical analysis
TEST REPORT (2.2) - Mechanical properties

Date: 2011-12-21

Certificate number: EC22261835 rev. 0

Our order: 15541901
Our reference: Rutger VISSER
Customer number: 30077244
Customer order date: 20111213

Your order: 20031014172
Your reference:
Your fax number:
Your e-mail:

Invoice address
ZEVIJ B.V. LASAULEC CENTRAAL HVEEN
Lidhr. 400
POSTBUS 447
4900 AK OOSTERHOUT
Netherlands

Receiver of certificate

Delivery address
LASAULEC CENTRAAL B.V.
Lidhr. 400
KUPER 2
8447 GK HEERENVEEN
Netherlands

DELIVERY

Lot number: PV146034137X

Quantity: 1008 KG

PRODUCT

Brand: ESAB
Description: OK Autrod 12.56 1.0mm 18kg
Item number: 1256107710

CLASSIFICATIONS

EN ISO 14341-A G3Si1
EN ISO 14341-A G38 2 C1 3Si1
EN ISO 14341-A G42 3 M21 3Si1

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21
Condition:

TENSILE

<u>ReL</u>	<u>Rm</u>	<u>A4-A5</u>
440 MPa	530 MPa	26 %

IMPACT

<u>Temp</u>	<u>KV</u>
-30 °C	70 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.07%
Si	0.91%
Mn	1.51%
P	0.017%
S	0.015%
Cr	0.08%
Ni	0.02%
Mo	0.01%
Cu	0.14%
V	< 0.01%
Al	< 0.01%
Ti+Zr	0.01%

COMMENTS

Product supplied under a QA Programme fulfilling the EN ISO 9001 standard.

This certificate is produced electronically and is valid without signature.

Please refer any queries to:

Esab Nederland BV - P.O. Box 2236, 3800 CE Amersfoort, Nederland

Validation - Chemical Analysis

Milan Macek

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



INSPECTION CERTIFICATE (3.1) - Chemical analysis
TEST REPORT (2.2) - Mechanical properties

Date: 2012-03-02

Certificate number: EC22351110 rev. 0

Our order: 15552542
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20120224

Your order: 20031030206
Your reference:
Your fax number:
Your e-mail:

Invoice address
ZEVIJ B.V. LASAULEC CENTRAAL HVEEN
Lidhr. 400
POSTBUS 447
4900 AK OOSTERHOUT
Netherlands

Receiver of certificate

Delivery address
LASAULEC CENTRAAL B.V.
Lidhr. 400
KUPER 2
8447 GK HEERENVEEN
Netherlands

DELIVERY

Lot number: PV205036145X

Quantity: 1008 BX

PRODUCT

Brand: ESAB
Description: OK Autrod 12.56 1.0mm 18kg
Item number: 1256107710

CLASSIFICATIONS

EN ISO 14341-A G3Si1
EN ISO 14341-A G38 2 C1 3Si1
EN ISO 14341-A G42 3 M21 3Si1

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21
Condition:

TENSILE

<u>Rel</u>	<u>Rm</u>	<u>A4-A5</u>
440 MPa	530 MPa	26 %

IMPACT

<u>Temp</u>	<u>KV</u>
-30 °C	70 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.07%
Si	0.92%
Mn	1.52%
P	0.008%
S	0.008%
Cr	0.05%
Ni	0.02%
Mo	0.01%
Cu	0.12%
V	< 0.01%
Al	< 0.01%
Ti+Zr	0.01%

COMMENTS

Product supplied under a QA Programme fulfilling the EN ISO 9001 standard.

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Please refer any queries to:

Esab Nederland BV - P.O. Box 2236, 3800 CE Amersfoort, Nederland

Validation - Chemical Analysis

Milan Macek

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



INSPECTION CERTIFICATE (3.1) - Chemical analysis
TEST REPORT (2.2) - Mechanical properties

Date: 2011-11-04

Certificate number: EC22204318 rev. 0

Our order: 15530490
Our reference: Line Cambien
Customer number: 30077244
Customer order date: 20110930

Your order: 20030998156
Your reference:
Your fax number:
Your e-mail:

Invoice address
ZEVJ B.V. LASAULEC CENTRAAL HVEEN
Lichr. 400
POSTBUS 447
4800 AK OOSTERHOUT
Netherlands

Receiver of certificate

Delivery address
LASAULEC CENTRAAL B.V.
Lichr. 400
KUPER 2
8447 GK HEEERENVEEN
Netherlands

DELIVERY

Lot number: PV139033146X

Quantity: 1008 KG

PRODUCT

Brand: ESAB
Description: OK Autrod 12.56 1.0mm 18kg
Item number: 1256107710

CLASSIFICATIONS

EN ISO 14341-A G3S1
EN ISO 14341-A G38 2 C1 3S1
EN ISO 14341-A G42 3 M21 3S1

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21
Condition:

TENSILE

Rel	Rm	A4-A5
440 MPa	530 MPa	26 %

IMPACT

Temp	KV
-30 °C	70 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.08%
Si	0.83%
Mn	1.46%
P	0.019%
S	0.011%
Cr	0.07%
N	0.03%
Mo	0.01%
Cu	0.14%
V	<0.01%
Al	<0.01%
Ti+Zr	0.01%

COMMENTS

Product supplied under a QA Programme fulfilling the EN ISO 9001 standard.

This certificate is produced electronically and is valid without signature.

Please refer any queries to:

Esab Nederland BV - P.O. Box 2236, 3800 CE Amersfoort, Nederland

Validation - Chemical Analysis

Milan Macsek

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



INSPECTION CERTIFICATE (3.1) - Chemical analysis TEST REPORT (2.2) - Mechanical properties

Date: 2012-06-11

Certificate number: EC22481128 rev. 0

Our order: 388977
Our reference: Line Cambien France
Customer number: NLB00152
Customer order date: 20120531

Your order: 20031051521
Your reference:
Your fax number:
Your e-mail:

Invoice address
ZEVIJ B.V. LASAULEC CENTRAAL HVEEN
POSTBUS 447
4900 AK OOSTERHOUT
Netherlands

Receiver of certificate

Delivery address
LASAULEC CENTRAAL B.V.
Lidnr. 400
KUPER 2
8447 GK HEERENVEEN
Netherlands

DELIVER

Lot number: PV219795151X

Quantity: 56 RL

PRODUCT

Brand: ESAB
Description: OK Autrod 12.56 1.0mm 18kg
Item number: 1256107710

CLASSIFICATIONS

EN ISO 14341-A G 3Si1
EN ISO 14341-A G 38 2 C1 3Si1
EN ISO 14341-A G 42 3 M21 3Si1

MECHANICAL PROPERTIES

Typical test
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21
Condition:

TENSILE

ReL	Rm	A4-A5
440 MPa	530 MPa	26 %

IMPACT

Temp	KV
-30 °C	70 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.07%
Si	0.89%
Mn	1.54%
P	0.011%
S	0.009%
Cr	0.04%
Ni	0.01%
Mo	< 0.01%
Cu	0.10%
V	< 0.01%
Al	< 0.01%
Ti+Zr	< 0.01%

COMMENTS

Product supplied under a QA Programme fulfilling the EN ISO 9001 standard.

This certificate is produced electronically and is valid without signature.

Please refer any queries to:

Esab Nederland BV - P.O. Box 2236, 3800 CE Amersfoort, Nederland

Validation - Chemical Analysis

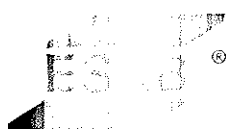
Miles Moders

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



INSPECTION CERTIFICATE (3.1) - Chemical analysis TEST REPORT (2.2) - Mechanical properties

Date: 2012-06-11

Certificate number: EC22481129 rev. 0

Our order: 388977
Our reference: Line Cambien France
Customer number: NLB00152
Customer order date: 20120531

Your order: 20031051521
Your reference:
Your fax number:
Your e-mail:

Invoice address
ZEVIL B.V. LASAULEC CENTRAAL HVEEN
POSTBUS 44
4900 AX OOSTERHOUT
Netherlands

Receiver of certificate

Delivery address
LASAULEC CENTRAAL B.V.
Lidnr. 400
KUPER 2
8447 GK HEERENVEEN
Netherlands

DELIVERY

Lot number: PV219795158X

Quantity: 56 RL

PRODUCT

Brand: ESAB
Description: OK Autrod 12.56 1.0mm 18kg
Item number: 1256107710

CLASSIFICATIONS

EN ISO 14341-A G 3Si1
EN ISO 14341-A G 38 2 C1 3Si1
EN ISO 14341-A G 42 3 M21 3Si1

MECHANICAL PROPERTIES

Type: 1
acc to EN 10204 - 3.2

Standard: EN
Auxiliary: M21
Condition:

TENSILE
Rel. Rm A4-A5
440 MPa 500 MPa 26 %

IMPACT
Tem KV
-30 70 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.07%
Si	0.89%
Mn	1.54%
P	0.012%
S	0.007%
Cr	0.04%
Ni	0.01%
Mo	< 0.01%
Cu	0.10%
V	< 0.01%
Al	< 0.01%
Ti+Zr	< 0.01%

COMMENTS

Product supplied under a QA Programme fulfilling the EN ISO 9001 standard.

This certificate is produced electronically and is valid without signature.

Please refer any queries to:

Esab Nederland BV - P.O. Box 2236, 3800 CE Amersfoort, Nederland

Validation - Chemical Analysis

Max. 11.0

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



INSPECTION CERTIFICATE (3.1) - Chemical analysis
TEST REPORT (2.2) - Mechanical properties

Date: 2011-08-01

Certificate number: EC22080788 rev. 0

Our order: 15520633
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20110722

Your order: 20030984893
Your reference:
Your fax number:
Your e-mail:

Invoice address
ZEVJ B.V. LASAULEC CENTRAAL HVEEN
Lichr. 400
POSTBUS 447
4800 AK OOSTERHOUT
Netherlands

Receiver of certificate

Delivery address
LASAULEC CENTRAAL B.V.
Lichr. 400
KUPER 2
8447 GK HEERENVEEN
Netherlands

DELIVERY

Lot number: PV129030194X

Quantity: 882 KG

PRODUCT

Brand: ESAB
Description: CK Autrod 12.56 1.0mm 18kg
Item number: 1256107710

CLASSIFICATIONS

EN ISO 14341-A G3S1
EN ISO 14341-A G38 2 C1 3S1
EN ISO 14341-A G42 3 M21 3S1

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21
Condition:

TENSILE

<u>ReL</u>	<u>Rm</u>	<u>A4-A5</u>
440 MPa	530 MPa	26 %

IMPACT

<u>Temp</u>	<u>KV</u>
-30 °C	70 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.07%
Si	0.84%
Mn	1.48%
P	0.020%
S	0.011%
Cr	0.07%
N	0.02%
Mo	0.01%
Cu	0.12%
V	< 0.01%
Al	< 0.01%
Ti+Zr	0.01%

COMMENTS

Product supplied under a QA Programme fulfilling the EN ISO 9001 standard.
This certificate is produced electronically and is valid without signature.
Please refer any queries to:
Esab Nederland BV - P.O. Box 2236, 3800 CE Amersfoort, Nederland

Validation - Chemical Analysis

Milan Macek

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



INSPECTION CERTIFICATE (3.1) - Chemical analysis
TEST REPORT (2.2) - Mechanical properties

Date: 2012-04-06

Certificate number: EC22398940 rev. 0

Our order: 15558195
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20120330

Your order: 20031038455
Your reference:
Your fax number:
Your e-mail:

Invoice address
ZEVIJ B.V. LASAULEC CENTRAAL HVEEN
Lidhr. 400
POSTBUS 447
4800 AK OOSTERHOUT
Netherlands

Receiver of certificate

Delivery address
LASAULEC CENTRAAL B.V.
Lidhr. 400
KUPER 2
8447 GK HEERENVEEN
Netherlands

DELIVERY

Lot number: PV209038250X

Quantity: 2016 BX

PRODUCT

Brand: ESAB
Description: OK Autrod 12.56 1.0mm 18kg
Item number: 1256107710

CLASSIFICATIONS

EN ISO 14341-A G 3Si1
EN ISO 14341-A G 38 2 C1 3Si1
EN ISO 14341-A G 42 3 M21 3Si1

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21
Condition:

TENSILE

<u>ReL</u>	<u>Rm</u>	<u>A4-A5</u>
440 MPa	530 MPa	26 %

IMPACT

<u>Temp</u>	<u>KV</u>
-30 °C	70 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.07%
Si	0.90%
Mn	1.48%
P	0.013%
S	0.016%
Cr	0.05%
Ni	0.06%
Mo	0.01%
Cu	0.15%
V	< 0.01%
Al	< 0.01%
Ti+Zr	0.01%

COMMENTS

Product supplied under a QA Programme fulfilling the EN ISO 9001 standard.

This certificate is produced electronically and is valid without signature.

Please refer any queries to:

Esab Nederland BV - P.O. Box 2236, 3800 CE Amersfoort, Nederland

Validation - Chemical Analysis

Milan Macek

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



INSPECTION CERTIFICATE (3.1) - Chemical analysis
TEST REPORT (2.2) - Mechanical properties

Date: 2012-04-06

Certificate number: EC22398941 rev. 0

Our order: 15558195
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20120330

Your order: 20031038455
Your reference:
Your fax number:
Your e-mail:

Invoice address
ZEVIJ B.V. LASAULEC CENTRAAL HVEEN
Lidhr. 400
POSTBUS 447
4900 AK OOSTERHOUT
Netherlands

Receiver of certificate

Delivery address
LASAULEC CENTRAAL B.V.
Lidhr. 400
KUPER 2
8447 GK HEERENVEEN
Netherlands

DELIVERY

Lot number: PV209789316X

Quantity: 1008 BX

PRODUCT

Brand: ESAB
Description: OK Autrod 12.56 1.0mm 18kg
Item number: 1256107710

CLASSIFICATIONS

EN ISO 14341-A G 3Si1
EN ISO 14341-A G 38 2 C1 3Si1
EN ISO 14341-A G 42 3 M21 3Si1

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21
Condition:

TENSILE

Rel Rm A4-A5
440 MPa 530 MPa 26 %

IMPACT

Temp KV
-30 °C 70 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.08%
Si	0.88%
Mn	1.49%
P	0.013%
S	0.008%
Cr	0.03%
Ni	0.01%
Mo	0.01%
Cu	0.10%
V	< 0.01%
Al	< 0.01%
Ti+Zr	< 0.01%

COMMENTS

Product supplied under a QA Programme fulfilling the EN ISO 9001 standard.

This certificate is produced electronically and is valid without signature.

Please refer any queries to:

Esab Nederland BV - P.O. Box 2236, 3800 CE Amersfoort, Nederland

Validation - Chemical Analysis

Milan Macek

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



INSPECTION CERTIFICATE (3.1) - Chemical analysis TEST REPORT (2.2) - Mechanical properties

Date: 2011-05-09

Certificate number: EC21976033 rev. 0

Our order: 15477230
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20110331

Your order: 20030960166
Your reference:
Your fax number:
Your e-mail:

Invoice address
ZEVIJ B.V. LASAULEC CENTRAAL HVEEN
Lidnr. 400
POSTBUS 447
4900 AK OOSTERHOUT
Netherlands

Receiver of certificate

Delivery address
LASAULEC CENTRAAL B.V.
Lidnr. 400
KUPER 2
8447 GK HEERENVEEN
Netherlands

DELIVERY

Lot number: PV117027361X

Quantity: 1008 KG

PRODUCT

Brand: ESAB
Description: OK Autrod 12.56 1.0mm 18kg
Item number: 1256107710

CLASSIFICATIONS

EN ISO 14341-A G 42 3 M G3Si1
EN ISO 14341-A G3Si1
EN ISO 14341-A G38 2 C G3Si1

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.07%
Si	0.85%
Mn	1.51%
P	0.018%
S	0.014%
Cr	0.06%
Ni	0.02%
Mo	0.01%
Cu	0.12%
V	< 0.01%
Al	< 0.01%
Ti+Zr	0.01%

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21
Condition:

TENSILE

<u>ReL</u>	<u>Rm</u>	<u>A4-A5</u>
440 MPa	530 MPa	26 %

IMPACT

<u>Temp</u>	<u>KV</u>
-30 °C	70 J

COMMENTS

Product supplied under a QA Programme fulfilling the EN ISO 9001 standard.
This certificate is produced electronically and is valid without signature.
Please refer any queries to:

Esab Nederland BV - P.O. Box 2236, 3800 CE Amersfoort, Nederland

Validation - Chemical Analysis

Josef Mysak

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



INSPECTION CERTIFICATE (3.1) - Chemical analysis
TEST REPORT (2.2) - Mechanical properties

Date: 2012-03-23

Certificate number: EC22380194 rev. 0

Our order: 15555942
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20120316

Your order: 20031035133
Your reference:
Your fax number:
Your e-mail:

Invoice address
ZEVIJ B.V. LASAULEC CENTRAAL HVEEN
Lichr. 400
POSTBUS 447
4900 AK OOSTERHOUT
Netherlands

Receiver of certificate

Delivery address
LASAULEC CENTRAAL B.V.
Lichr. 400
KUPER 2
8447 GK HEERENVEEN
Netherlands

DELIVERY

Lot number: PV208038402X

Quantity: 1008 BX

PRODUCT

Brand: ESAB
Description: OK Autrod 12.56 1.0mm 18kg
Item number: 1256107710

CLASSIFICATIONS

EN ISO 14341-A G3Si1
EN ISO 14341-A G38.2 C1 3Si1
EN ISO 14341-A G42.3 M21 3Si1

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21
Condition:

TENSILE

Rel	Rm	A4-A5
440 MPa	530 MPa	26 %

IMPACT

Temp	KV
-30 °C	70 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.07%
Si	0.90%
Mn	1.51%
P	0.015%
S	0.013%
Cr	0.06%
Ni	0.02%
Mo	0.01%
Cu	0.11%
V	<0.01%
Al	<0.01%
Ti+Zr	0.01%

COMMENTS

Product supplied under a QA Programme fulfilling the EN ISO 9001 standard.

This certificate is produced electronically and is valid without signature.

Please refer any queries to:

Esab Nederland BV - P.O. Box 2236, 3800 CE Amersfoort, Nederland

Validation - Chemical Analysis

Milan Macek

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



INSPECTION CERTIFICATE (3.1) - Chemical analysis
TEST REPORT (2.2) - Mechanical properties

Date: 2011-09-05

Certificate number: EC22121435 rev. 0

Our order: 15520833
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20110722

Your order: 20030984893
Your reference:
Your fax number:
Your e-mail:

Invoice address
ZEVJ B.V. LASAULEC CENTRAAL HVEEN
Lichr. 400
POSTBUS 447
4800 AK OOSTERHOUT
Netherlands

Receiver of certificate

Delivery address
LASAULEC CENTRAAL B.V.
Lichr. 400
KUPER 2
8447 GK HEEBENVEEN
Netherlands

DELIVERY

Lot number: PV134031422X

Quantity: 126 KG

PRODUCT

Brand: ESAB
Description: CK Autrod 12.56 1.0mm 18kg
Item number: 1256107710

CLASSIFICATIONS

EN ISO 14341-A G3S1
EN ISO 14341-A G38.2 C1 3S1
EN ISO 14341-A G42.3 M21 3S1

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21
Condition:

TENSILE

<u>ReL</u>	<u>Rm</u>	<u>A4-A5</u>
440 MPa	530 MPa	26 %

IMPACT

<u>Temp</u>	<u>KV</u>
-30 °C	70 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.08%
Si	0.84%
Mn	1.47%
P	0.020%
S	0.015%
Cr	0.05%
N	0.02%
Mo	0.01%
Cu	0.11%
V	<0.01%
Al	<0.01%
Ti+Zr	0.01%

COMMENTS

Product supplied under a QA Programme fulfilling the EN ISO 9001 standard.

This certificate is produced electronically and is valid without signature.

Please refer any queries to:

Esab Nederland BV - P.O. Box 2236, 3800 CE Amersfoort, Nederland

Validation - Chemical Analysis

Milan Macek

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



INSPECTION CERTIFICATE (3.1) - Chemical analysis
TEST REPORT (2.2) - Mechanical properties

Date: 2011-11-04

Certificate number: EC22204316 rev. 0

Our order: 15530490
Our reference: Line Cambien
Customer number: 30077244
Customer order date: 20110930

Your order: 20030998156
Your reference:
Your fax number:
Your e-mail:

Invoice address
ZEVJ B.V. LASAULEC CENTRAAL HVEEN
Licht. 400
POSTBUS 447
4300 AK COOSTERHOUT
Netherlands

Receiver of certificate

Delivery address
LASAULEC CENTRAAL B.V.
Licht. 400
KUPER 2
8447 GK HEEERENVEEN
Netherlands

DELIVERY

Lot number: FT14229521

Quantity: 324 KG

PRODUCT

Brand: ESAB
Description: CK Autrod 12.56 1.0mm 18kg
Item number: 1256107710

CLASSIFICATIONS

EN ISO 14341-A G3S1
EN ISO 14341-A G38 2 C1 3S1
EN ISO 14341-A G42 3 M21 3S1

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21
Condition:

TENSILE

ReL	Rm	A4-A5
440 MPa	530 MPa	26 %

IMPACT

Temp	KV
-30 °C	70 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.07%
Si	0.85%
Mn	1.40%
P	0.015%
S	0.005%
Cr	0.04%
N	0.02%
Mo	<0.01%
Cu	0.12%
V	<0.01%
Al	<0.01%
Ti+Zr	<0.01%

COMMENTS

Product supplied under a QA Programme fulfilling the EN ISO 9001 standard.

This certificate is produced electronically and is valid without signature.

Please refer any queries to:

Esab Nederland BV - P.O. Box 2236, 3800 CE Amersfoort, Nederland

Validation - Chemical Analysis

Massimo Cherardi

Quality Assurance Manager

Validation - Others

Per-Erik Andersson

Product Manager



INSPECTION CERTIFICATE (3.1) - Chemical analysis TEST REPORT (2.2) - Mechanical properties

Date: 2011-05-09

Certificate number: EC21976035 rev. 0

Our order: 15477230
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20110331

Your order: 20030960166
Your reference:
Your fax number:
Your e-mail:

Invoice address

ZEVIJ B.V. LASAULEC CENTRAAL HVEEN
Lidnr. 400
POSTBUS 447
4900 AK OOSTERHOUT
Netherlands

Receiver of certificate

Delivery address

LASAULEC CENTRAAL B.V.
Lidnr. 400
KUPER 2
8447 GK HEERENVEEN
Netherlands

DELIVERY

Lot number: PV117764721X

Quantity: 2016 KG

PRODUCT

Brand: ESAB
Description: OK Autrod 12.56 1.0mm 18kg
Item number: 1256107710

CLASSIFICATIONS

EN ISO 14341-A G 42 3 M G3Si1
EN ISO 14341-A G3Si1
EN ISO 14341-A G38 2 C G3Si1

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21
Condition:

TENSILE

<u>ReL</u>	<u>Rm</u>	<u>A4-A5</u>
440 MPa	530 MPa	26 %

IMPACT

<u>Temp</u>	<u>KV</u>
-30 °C	70 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.07%
Si	0.81%
Mn	1.47%
P	0.015%
S	0.008%
Cr	0.04%
Ni	0.02%
Mo	0.01%
Cu	0.08%
V	< 0.01%
Al	< 0.01%
Ti+Zr	< 0.01%

COMMENTS

Product supplied under a QA Programme fulfilling the EN ISO 9001 standard.
This certificate is produced electronically and is valid without signature.
Please refer any queries to:

Esab Nederland BV - P.O. Box 2236 , 3800 CE Amersfoort , Nederland

Validation - Chemical Analysis

Josef Mysak

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



INSPECTION CERTIFICATE (3.1) - Chemical analysis TEST REPORT (2.2) - Mechanical properties

Date: 2011-05-09

Certificate number: EC21976036 rev. 0

Our order: 15477230
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20110331

Your order: 20030960166
Your reference:
Your fax number:
Your e-mail:

Invoice address
ZEVIJ B.V. LASAULEC CENTRAAL HVEEN
Lidnr. 400
POSTBUS 447
4900 AK OOSTERHOUT
Netherlands

Receiver of certificate

Delivery address
LASAULEC CENTRAAL B.V.
Lidnr. 400
KUPER 2
8447 GK HEERENVEEN
Netherlands

DELIVERY

Lot number: PV117764723X

Quantity: 1008 KG

PRODUCT

Brand: ESAB
Description: OK Autrod 12.56 1.0mm 18kg
Item number: 1256107710

CLASSIFICATIONS

EN ISO 14341-A G 42 3 M G3Si1
EN ISO 14341-A G3Si1
EN ISO 14341-A G38 2 C G3Si1

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21
Condition:

TENSILE

<u>ReL</u>	<u>Rm</u>	<u>A4-A5</u>
440 MPa	530 MPa	26 %

IMPACT

<u>Temp</u>	<u>KV</u>
-30 °C	70 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.07%
Si	0.84%
Mn	1.49%
P	0.014%
S	0.008%
Cr	0.04%
Ni	0.01%
Mo	0.01%
Cu	0.10%
V	< 0.01%
Al	< 0.01%
Ti+Zr	< 0.01%

COMMENTS

Product supplied under a QA Programme fulfilling the EN ISO 9001 standard.
This certificate is produced electronically and is valid without signature.
Please refer any queries to:

Esab Nederland BV - P.O. Box 2236 , 3800 CE Amersfoort , Nederland

Validation - Chemical Analysis

Josef Mysak

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



INSPECTION CERTIFICATE (3.1) - Chemical analysis TEST REPORT (2.2) - Mechanical properties

Date: 2011-05-24

Certificate number: EC21995596 rev. 0

Our order: 15492758
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20110513

Your order: 20030969640
Your reference:
Your fax number:
Your e-mail:

Invoice address
ZEVIJ B.V. LASAULEC CENTRAAL HVEEN
Lidnr. 400
POSTBUS 447
4900 AK OOSTERHOUT
Netherlands

Receiver of certificate

Delivery address
LASAULEC CENTRAAL B.V.
Lidnr. 400
KUPER 2
8447 GK HEERENVEEN
Netherlands

DELIVERY

Lot number: PV117561775X

Quantity: 1008 KG

PRODUCT

Brand: ESAB
Description: OK Autrod 12.56 1.0mm 18kg
Item number: 1256107710

CLASSIFICATIONS

EN ISO 14341-A G 42 3 M G3Si1
EN ISO 14341-A G3Si1
EN ISO 14341-A G38 2 C G3Si1

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21
Condition:

TENSILE

<u>ReL</u>	<u>Rm</u>	<u>A4-A5</u>
440 MPa	530 MPa	26 %

IMPACT

<u>Temp</u>	<u>KV</u>
-30 °C	70 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.08%
Si	0.86%
Mn	1.47%
P	0.015%
S	0.015%
Cr	0.04%
Ni	0.06%
Mo	0.01%
Cu	0.12%
V	0.01%
Al	< 0.01%
Ti+Zr	0.01%

COMMENTS

Product supplied under a QA Programme fulfilling the EN ISO 9001 standard.
This certificate is produced electronically and is valid without signature.
Please refer any queries to:

Esab Nederland BV - P.O. Box 2236, 3800 CE Amersfoort, Nederland

Validation - Chemical Analysis

Milan Macek

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



INSPECTION CERTIFICATE (3.1) - Chemical analysis
TEST REPORT (2.2) - Mechanical properties

Date: 2012-01-12

Certificate number: EC22281258 rev. 0

Our order: 15544716
Our reference: VAN KELLER Marina
Customer number: 30077244
Customer order date: 20120106

Your order: 20031018825
Your reference:
Your fax number:
Your e-mail:

Invoice address
ZEVIJ B.V. LASAULEC CENTRAALHVEEN
Lidhr. 400
POSTBUS 447
4900 AK OOSTERHOUT
Netherlands

Receiver of certificate

Delivery address
LASAULEC CENTRAAL B.V.
Lidhr. 400
KUPER 2
8447 GK HEERENVEEN
Netherlands

DELIVERY

Lot number: PV148782840X

Quantity: 1008 KG

PRODUCT

Brand: ESAB
Description: OK Autrod 12.56 1.0mm 18kg
Item number: 1256107710

CLASSIFICATIONS

EN ISO 14341-A G 3 Si1
EN ISO 14341-A G 38 2 C1 3 Si1
EN ISO 14341-A G 42 3 M21 3 Si1

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21
Condition:

TENSILE

Rel	Rm	A4-A5
440 MPa	530 MPa	26 %

IMPACT

Temp	KV
-30 °C	70 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.08%
Si	0.86%
Mn	1.46%
P	0.013%
S	0.009%
Cr	0.03%
Ni	0.01%
Mo	0.01%
Cu	0.10%
V	< 0.01%
Al	< 0.01%
Ti+Zr	< 0.01%

COMMENTS

Product supplied under a QA Programme fulfilling the EN ISO 9001 standard.

This certificate is produced electronically and is valid without signature.

Please refer any queries to:

Esab Nederland BV - P.O. Box 2236, 3800 CE Amersfoort, Nederland

Validation - Chemical Analysis

Milan Macek

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



INSPECTION CERTIFICATE (3.1) - Chemical analysis
TEST REPORT (2.2) - Mechanical properties

Date: 2012-03-02

Certificate number: EC22351111 rev. 0

Our order: 15552542
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20120224

Your order: 20031030206
Your reference:
Your fax number:
Your e-mail:

Invoice address
ZEVIJ B.V. LASAULEC CENTRAAL HVEEN
Lidhr. 400
POSTBUS 447
4900 AK OOSTERHOUT
Netherlands

Receiver of certificate

Delivery address
LASAULEC CENTRAAL B.V.
Lidhr. 400
KUPER 2
8447 GK HEERENVEEN
Netherlands

DELIVERY

Lot number: PV205036882X

Quantity: 1008 BX

PRODUCT

Brand: ESAB
Description: OK Autrod 12.56 1.0mm 18kg
Item number: 1256107710

CLASSIFICATIONS

EN ISO 14341-A G3Si1
EN ISO 14341-A G38 2 C1 3Si1
EN ISO 14341-A G42 3 M21 3Si1

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21
Condition:

TENSILE

Rel Rm A4-A5
440 MPa 530 MPa 26 %

IMPACT

Temp KV
-30 °C 70 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.08%
Si	0.83%
Mn	1.45%
P	0.014%
S	0.014%
Cr	0.06%
Ni	0.02%
Mo	0.01%
Cu	0.10%
V	< 0.01%
Al	< 0.01%
Ti+Zr	0.01%

COMMENTS

Product supplied under a QA Programme fulfilling the EN ISO 9001 standard.

This certificate is produced electronically and is valid without signature.

Please refer any queries to:

Esab Nederland BV - P.O. Box 2236, 3800 CE Amersfoort, Nederland

Validation - Chemical Analysis

Milan Macek

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



INSPECTION CERTIFICATE (3.1) - Chemical analysis TEST REPORT (2.2) - Mechanical properties

Date: 2011-05-09

Certificate number: EC21976037 rev. 0

Our order: 15477230
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20110331

Your order: 20030960166
Your reference:
Your fax number:
Your e-mail:

Invoice address
ZEVIJ B.V. LASAULEC CENTRAAL HVEEN
Lidnr. 400
POSTBUS 447
4900 AK OOSTERHOUT
Netherlands

Receiver of certificate

Delivery address
LASAULEC CENTRAAL B.V.
Lidnr. 400
KUPER 2
8447 GK HEERENVEEN
Netherlands

DELIVERY

Lot number: PV117764912X

Quantity: 2016 KG

PRODUCT

Brand: ESAB
Description: OK Autrod 12.56 1.0mm 18kg
Item number: 1256107710

CLASSIFICATIONS

EN ISO 14341-A G 42 3 M G3Si1
EN ISO 14341-A G3Si1
EN ISO 14341-A G38 2 C G3Si1

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.09%
Si	0.87%
Mn	1.46%
P	0.014%
S	0.010%
Cr	0.04%
Ni	0.01%
Mo	0.01%
Cu	0.10%
V	< 0.01%
Al	< 0.01%
Ti+Zr	< 0.01%

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21
Condition:

TENSILE

<u>ReL</u>	<u>Rm</u>	<u>A4-A5</u>
440 MPa	530 MPa	26 %

IMPACT

<u>Temp</u>	<u>KV</u>
-30 °C	70 J

COMMENTS

Product supplied under a QA Programme fulfilling the EN ISO 9001 standard.
This certificate is produced electronically and is valid without signature.
Please refer any queries to:

Esab Nederland BV - P.O. Box 2236, 3800 CE Amersfoort, Nederland

Validation - Chemical Analysis

Josef Mysak

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



INSPECTION CERTIFICATE (3.1) - Chemical analysis TEST REPORT (2.2) - Mechanical properties

Date: 2011-05-09

Certificate number: EC21976034 rev. 0

Our order: 15477230
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20110331

Your order: 20030960166
Your reference:
Your fax number:
Your e-mail:

Invoice address
ZEVIJ B.V. LASAULEC CENTRAAL HVEEN
Lidnr. 400
POSTBUS 447
4900 AK OOSTERHOUT
Netherlands

Receiver of certificate

Delivery address
LASAULEC CENTRAAL B.V.
Lidnr. 400
KUPER 2
8447 GK HEERENVEEN
Netherlands

DELIVERY

Lot number: PV117558918X

Quantity: 1008 KG

PRODUCT

Brand: ESAB
Description: OK Autrod 12.56 1.0mm 18kg
Item number: 1256107710

CLASSIFICATIONS

EN ISO 14341-A G 42 3 M G3Si1
EN ISO 14341-A G3Si1
EN ISO 14341-A G38 2 C G3Si1

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21
Condition:

TENSILE

<u>ReL</u>	<u>Rm</u>	<u>A4-A5</u>
440 MPa	530 MPa	26 %

IMPACT

<u>Temp</u>	<u>KV</u>
-30 °C	70 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.07%
Si	0.86%
Mn	1.55%
P	0.011%
S	0.019%
Cr	0.05%
Ni	0.04%
Mo	0.01%
Cu	0.12%
V	0.01%
Al	< 0.01%
Ti+Zr	0.01%

COMMENTS

Product supplied under a QA Programme fulfilling the EN ISO 9001 standard.
This certificate is produced electronically and is valid without signature.
Please refer any queries to:

Esab Nederland BV - P.O. Box 2236 , 3800 CE Amersfoort , Nederland

Validation - Chemical Analysis

Josef Mysak

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



INSPECTION CERTIFICATE (3.1) - Chemical analysis
TEST REPORT (2.2) - Mechanical properties

Date: 2011-12-21

Certificate number: EC22261838 rev. 0

Our order: 15541901
Our reference: Rutger VISSER
Customer number: 30077244
Customer order date: 20111213

Your order: 20031014172
Your reference:
Your fax number:
Your e-mail:

Invoice address
ZEVIJ B.V. LASAULEC CENTRAAL HVEEN
Lidhr. 400
POSTBUS 447
4900 AK OOSTERHOUT
Netherlands

Receiver of certificate

Delivery address
LASAULEC CENTRAAL B.V.
Lidhr. 400
KUPER 2
8447 GK HEERENVEEN
Netherlands

DELIVERY

Lot number: PV147997950X

Quantity: 1008 KG

PRODUCT

Brand: ESAB
Description: OK Autrod 12.56 1.0mm 18kg
Item number: 1256107710

CLASSIFICATIONS

EN ISO 14341-A G3Si1
EN ISO 14341-A G38 2 C1 3Si1
EN ISO 14341-A G42 3 M21 3Si1

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21
Condition:

TENSILE

<u>ReL</u>	<u>Rm</u>	<u>A4-A5</u>
440 MPa	530 MPa	26 %

IMPACT

<u>Temp</u>	<u>KV</u>
-30 °C	70 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.07%
Si	0.93%
Mn	1.54%
P	0.008%
S	0.019%
Cr	0.06%
Ni	0.04%
Mo	0.02%
Cu	0.13%
V	< 0.01%
Al	< 0.01%
Ti+Zr	0.02%

COMMENTS

Product supplied under a QA Programme fulfilling the EN ISO 9001 standard.
This certificate is produced electronically and is valid without signature.
Please refer any queries to:
Esab Nederland BV - P.O. Box 2236, 3800 CE Amersfoort, Nederland

Validation - Chemical Analysis

Milan Macek

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



INSPECTION CERTIFICATE (3.1) - Chemical analysis
TEST REPORT (2.2) - Mechanical properties

Date: 2012-01-12

Certificate number: EC22281257 rev. 0

Our order: 15544716
Our reference: VAN KELLER Marina
Customer number: 30077244
Customer order date: 20120106

Your order: 20031018825
Your reference:
Your fax number:
Your e-mail:

Invoice address
ZEVIJ B.V. LASAULEC CENTRAAL HVEEN
Lidn. 400
POSTBUS 447
4900 AK OOSTERHOUT
Netherlands

Receiver of certificate

Delivery address
LASAULEC CENTRAAL B.V.
Lidn. 400
KUPER 2
8447 GK HEERENVEEN
Netherlands

DELIVERY

Lot number: PV148034968X

Quantity: 2016 KG

PRODUCT

Brand: ESAB
Description: OK Autrod 12.56 1.0mm 18kg
Item number: 1256107710

CLASSIFICATIONS

EN ISO 14341-A G3Si1
EN ISO 14341-A G38 2 C1 3Si1
EN ISO 14341-A G42 3 M21 3Si1

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.08%
Si	0.88%
Mn	1.51%
P	0.017%
S	0.016%
Cr	0.10%
Ni	0.02%
Mo	0.01%
Cu	0.13%
V	< 0.01%
Al	0.01%
Ti+Zr	0.01%

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21
Condition:

TENSILE

<u>Rel</u>	<u>Rm</u>	<u>A4-A5</u>
440 MPa	530 MPa	26 %

IMPACT

<u>Temp</u>	<u>KV</u>
-30 °C	70 J

COMMENTS

Product supplied under a QA Programme fulfilling the EN ISO 9001 standard.
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Please refer any queries to:

Esab Nederland BV - P.O. Box 2236, 3800 CE Amersfoort, Nederland

Validation - Chemical Analysis

Milan Macek

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



INSPECTION CERTIFICATE (3.1) - Chemical analysis
TEST REPORT (2.2) - Mechanical properties

Date: 2012-03-02

Certificate number: EC22351112 rev. 0

Our order: 15552542
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20120224

Your order: 20031030206
Your reference:
Your fax number:
Your e-mail:

Invoice address
ZEVIJ B.V. LASAULEC CENTRAAL HVEEN
Lidhr. 400
POSTBUS 447
4800 AK OOSTERHOUT
Netherlands

Receiver of certificate

Delivery address
LASAULEC CENTRAAL B.V.
Lidhr. 400
KUPER 2
8447 GK HEERENVEEN
Netherlands

DELIVERY

Lot number: PV205036984X

Quantity: 1008 BX

PRODUCT

Brand: ESAB
Description: OK Autrod 12.56 1.0mm 18kg
Item number: 1256107710

CLASSIFICATIONS

EN ISO 14341-A G 3Si1
EN ISO 14341-A G 38 2 C1 3Si1
EN ISO 14341-A G 42 3 M21 3Si1

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21
Condition:

TENSILE

Rel.	Rm	A4-A5
440 MPa	530 MPa	26 %

IMPACT

Temp	KV
-30 °C	70 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.07%
Si	0.89%
Mn	1.54%
P	0.016%
S	0.013%
Cr	0.07%
Ni	0.04%
Mo	0.02%
Cu	0.11%
V	< 0.01%
Al	< 0.01%
Ti+Zr	0.01%

COMMENTS

Product supplied under a QA Programme fulfilling the EN ISO 9001 standard.

This certificate is produced electronically and is valid without signature.

Please refer any queries to:

Esab Nederland BV - P.O. Box 2236, 3800 CE Amersfoort, Nederland

Validation - Chemical Analysis

Milan Macek

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



INSPECTION CERTIFICATE (3.1) - Chemical analysis
TEST REPORT (2.2) - Mechanical properties

Date: 2011-10-27

Certificate number: EC22194004 rev. 0

Our order: 15530490
Our reference: Line Cambien
Customer number: 30077244
Customer order date: 20110930

Your order: 20030998156
Your reference:
Your fax number:
Your e-mail:

Invoice address

ZEVU B.V. LASAULEC CENTRAAL HVEEN
Lidhr. 400
POSTBUS 447
4800 AK OOSTERHOUT
Netherlands

Receiver of certificate

Delivery address

LASAULEC CENTRAAL B.V.
Lidhr. 400
KUPER 2
8447 GK HEEERENVEEN
Netherlands

DELIVERY

Lot number: FT14120146

Quantity: 162 KG

PRODUCT

Brand: ESAB
Description: CKAutrod 1256 1.0mm18kg
Item number: 1256107710

CLASSIFICATIONS

EN ISO 14341-A G3S1
EN ISO 14341-A G38 2 C1 3S1
EN ISO 14341-A G42 3 M21 3S1

MECHANICAL PROPERTIES

Type: acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21
Certificate:

TENSILE

ReL: 410 MPa Rm: 550 MPa A4-A5: 26 %

IMPACT

Temp: -30 °C KV: 70 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C 0.07%
Si 0.85%
Mn 1.42%
P 0.007%
S 0.008%
Cr 0.03%
N 0.03%
Mo 0.01%
Cu 0.13%
V <0.01%
Al 0.01%
Ti+Zr <0.01%

COMMENTS:

Product supplied under a QA Programme fulfilling the EN ISO 9001 standard.

This certificate is produced electronically and is valid without signature.

Please refer any queries to:

ESAB Nederland BV - P.O. Box 2236, 3800 CE Amersfoort, Nederland

Validation - Chemical Analysis

M. J. J. J. J. J.

Quality Assurance Manager

Validation - Others

Per-Erik Andersson

Product Manager



INSPECTION CERTIFICATE (3.1) - Chemical analysis
TEST REPORT (2.2) - Mechanical properties

Date: 2011-11-04

Certificate number: EC22204315 rev. 0

Our order: 15530490
Our reference: Line Cambien
Customer number: 30077244
Customer order date: 20110930

Your order: 20030998156
Your reference:
Your fax number:
Your e-mail:

Invoice address
ZEVJ B.V. LASAULEC CENTRAAL HVEEN
Lichr. 400
POSTBUS 447
4800 AK OOSTERHOUT
Netherlands

Receiver of certificate

Delivery address
LASAULEC CENTRAAL B.V.
Lichr. 400
KUPER 2
8447 GK HEEERENVEEN
Netherlands

DELIVERY

Lot number: FT137121723

Quantity: 1008 KG

PRODUCT

Brand: ESAB
Description: CK Autrod 12.56 1.0mm18kg
Item number: 1256107710

CLASSIFICATIONS

EN ISO 14341-A G3S1
EN ISO 14341-A G38 2 C1 3S1
EN ISO 14341-A G42 3 M21 3S1

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21
Condition:

TENSILE

Rel Rm A4-A5
440 MPa 530 MPa 26 %

IMPACT

Temp KV
-30 °C 70 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C 0.07%
Si 0.86%
Mn 1.42%
P 0.012%
S 0.006%
Cr 0.03%
N 0.02%
Mb <0.01%
Cu 0.16%
V 0.01%
Al 0.01%
Ti+Zr <0.01%

COMMENTS

Product supplied under a QA Programme fulfilling the EN ISO 9001 standard.

This certificate is produced electronically and is valid without signature.

Please refer any queries to:

Esab Nederland BV - P.O. Box 2236, 3800 CE Amersfoort, Nederland

Validation - Chemical Analysis

Massimo Gherardi

Quality Assurance Manager

Validation - Others

Per-Erik Andersson

Product Manager



INSPECTION CERTIFICATE (3.1) - Chemical analysis
TEST REPORT (2.2) - Mechanical properties

Date: 2011-11-04

Certificate number: EC22204314 rev. 0

Our order: 15530490
Our reference: Line Cambien
Customer number: 30077244
Customer order date: 20110930

Your order: 20030998156
Your reference:
Your fax number:
Your e-mail:

Invoice address
ZEMJ B.V. LASAULEC CENTRAAL HVEEN
Lidhr. 400
POSTBUS 447
4800 AK OOSTERHOUT
Netherlands

Receiver of certificate

Delivery address
LASAULEC CENTRAAL B.V.
Lidhr. 400
KUPER 2
8447 GK HEEERENVEEN
Netherlands

DELIVERY

Lot number: FT137116194

Quantity: 3024 KG

PRODUCT

Brand: ESAB
Description: CK Autrod 12.56 1.0mm 18kg
Item number: 1256107710

CLASSIFICATIONS

EN ISO 14341-A G3S1
EN ISO 14341-A G38 2 C1 3S1
EN ISO 14341-A G42 3 M21 3S1

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21
Condition:

TENSILE

<u>Rel</u>	<u>Rm</u>	<u>A4-A5</u>
440 MPa	530 MPa	26 %

IMPACT

<u>Temp</u>	<u>KV</u>
-30 °C	70 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.07%
Si	0.94%
Mn	1.47%
P	0.012%
S	0.006%
Cr	0.04%
N	0.04%
Mo	0.01%
Cu	0.19%
V	<0.01%
Al	0.01%
Ti+Zr	0.02%

COMMENTS

Product supplied under a QA Programme fulfilling the EN ISO 9001 standard.
This certificate is produced electronically and is valid without signature.
Please refer any queries to:

Esab Nederland BV - P.O. Box 2236, 3800 CE Amersfoort, Nederland

Validation - Chemical Analysis

Massimo Cherard

Quality Assurance Manager

Validation - Others

Per-Erik Andersson

Product Manager