



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

Date: 2011-05-09

Certificate number: EC21976039 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: PV116027363X

Quantity: 3024 KG

PRODUCT

Brand: ESAB
Description: OK Autrod 12.56 1.2mm 18kg
Item number: 1256127710

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	1.51%
P	0.018%
S	0.015%
Cr	0.05%
Ni	0.01%
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

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: EC21976041 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: PV117027363X

Quantity: 3024 KG

PRODUCT

Brand: ESAB
Description: OK Autrod 12.56 1.2mm 18kg
Item number: 1256127710

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

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	0.84%
Mn	1.51%
P	0.018%
S	0.015%
Cr	0.05%
Ni	0.01%
Mo	0.01%
Cu	0.10%
V	< 0.01%
Al	< 0.01%
Ti+Zr	0.01%

COMMENTS

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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: EC21976042 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: 5040 KG

PRODUCT

Brand: ESAB
Description: OK Autrod 12.56 1.2mm 18kg
Item number: 1256127710

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	0.81%
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%

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

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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: 2011-03-01

Certificate number: EC21897110 rev. 0

Our order: 15463223
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20110215

Your order: 20030950201
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: PV108024602X

Quantity: 6048 KG

PRODUCT

Brand: ESAB
Description: OK Autrod 12.56 1.2mm 18kg
Item number: 1256127710

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

COMMENTS

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.07%
Si	0.88%
Mn	1.47%
P	0.013%
S	0.015%
Cr	0.06%
Ni	0.02%
Mo	0.01%
Cu	0.13%
V	< 0.01%
Al	< 0.01%
Ti+Zr	0.01%

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: EC21976040 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 1.2mm 18kg
Item number: 1256127710

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	0.85%
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%

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

Josef Mysak

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



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

Date: 2011-03-29

Certificate number: EC21928975 rev. 0

Our order: 15472040
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20110316

Your order: 20030956864
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: PV112026119X

Quantity: 1008 KG

PRODUCT

Brand: ESAB
Description: OK Autrod 12.56 1.2mm 18kg
Item number: 1256127710

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

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	0.84%
Mn	1.45%
P	0.019%
S	0.016%
Cr	0.06%
Ni	0.05%
Mo	0.01%
Cu	0.14%
V	< 0.01%
Al	< 0.01%
Ti+Zr	0.01%

COMMENTS

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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: 2012-02-13

Certificate number: EC22324986 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: PV147034967X

Quantity: 1008 BX

PRODUCT

Brand: ESAB
Description: OK Autrod 12.56 1.2mm 18kg
Item number: 1256127710

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	1.49%
P	0.014%
S	0.017%
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: 2012-02-13

Certificate number: EC22324987 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. LESAULEC CENTRAAL HVEEN
Lidhr. 400
POSTBUS 447
4800 AK OOSTERHOUT
Netherlands

Receiver of certificate

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

DELIVERY

Lot number: PV148034967X

Quantity: 1008 BX

PRODUCT

Brand: ESAB
Description: OK Autrod 12.56 1.2mm 18kg
Item number: 1256127710

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	1.49%
P	0.014%
S	0.017%
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.

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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: 2012-02-13

Certificate number: EC22324988 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
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: PV148034968X

Quantity: 1008 BX

PRODUCT

Brand: ESAB
Description: OK Autrod 12.56 1.2mm 18kg
Item number: 1256127710

CLASSIFICATIONS

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

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