



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

Date: 2012-04-11

Certificate number: EC22402444 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
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: PV214037186B

Quantity: 1000 BX

PRODUCT

Brand: ESAB
Description: CK AristRod 69 1.2mm 250kg
Item number: 1B29129320

CLASSIFICATIONS

EN ISO 16834-A G 69 4 M Mn3Ni1CrMo
EN ISO 16834-A G Mn3Ni1CrMo
SFA/AWS A5.28 ER110S-G

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.09%
Si	0.50%
Mn	1.68%
P	0.014%
S	0.011%
Cr	0.31%
Ni	1.34%
Mo	0.21%
Cu	0.04%
Ti	<0.01%
V	0.08%
Al	<0.01%
Zr	<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>
730 MPa	800 MPa	19 %

IMPACT

<u>Temp</u>	<u>KV</u>
-40 °C	55 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: 2012-06-08

Certificate number: EC22479926 rev. 0

Our order: 393579
Our reference: Line Cambien France
Customer number: NLB00152
Customer order date: 20120607

Your order: 20031053089
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

DELIVERY

Lot number: PV220435848B

Quantity: 1000 KGM

PRODUCT

Brand: ESAB
Description: OK AristoRod 69 1.2mm 250kg
Item number: 1B29129320

CLASSIFICATIONS

EN ISO 16834-A G 69 4 M Mn3Ni1CrMo
EN ISO 16834-A G Mn3Ni1CrMo
SFA/AWS A5.28 ER110S-G

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21
Condition:

TENSILE

ReL	Rm	A4-A5
730 MPa	800 MPa	19 %

IMPACT

Temp	KV
-40 °C	55 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.09%
Si	0.55%
Mn	1.76%
P	0.007%
S	0.006%
Cr	0.30%
Ni	1.44%
Mo	0.22%
Cu	0.08%
Ti	< 0.01%
V	0.07%
Al	< 0.01%
Zr	< 0.01%
Ti+Zr	0.01%

COMMENTS

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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: 2011-05-13

Certificate number: EC21983945 rev. 0

Our order: 15483496
Our reference: Line Cambien
Customer number: 30077244
Customer order date: 20110415

Your order: 200309633717
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: PV116026128B

Quantity: 1000 KG

PRODUCT

Brand: ESAB
Description: OK AristoRod 69 1.2mm 250kg
Item number: 1B29129320

CLASSIFICATIONS

EN ISO 16834-A G 69 4 M Mn3Ni1CrMo
EN ISO 16834-A G Mn3Ni1CrMo
SFA/AWS A5.28 ER110S-G

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>
730 MPa	800 MPa	19 %

IMPACT

<u>Temp</u>	<u>KV</u>
-40 °C	55 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.08%
Si	0.56%
Mn	1.75%
P	0.014%
S	0.008%
Cr	0.31%
Ni	1.31%
Mo	0.25%
Cu	0.09%
Ti	< 0.01%
V	0.08%
Al	< 0.01%
Zr	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: 2011-05-13

Certificate number: EC21983944 rev. 0

Our order: 15480532
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20110408

Your order: 20030962052
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: PV118026124B

Quantity: 750 KG

PRODUCT

Brand: ESAB
Description: OK AristoRod 69 1.2mm 250kg
Item number: 1B29129320

CLASSIFICATIONS

EN ISO 16834-A G 69 4 M Mn3Ni1CrMo
EN ISO 16834-A G Mn3Ni1CrMo
SFA/AWS A5.28 ER110S-G

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>
730 MPa	800 MPa	19 %

IMPACT

<u>Temp</u>	<u>KV</u>
-40 °C	55 J

CHEMICAL COMPOSITION

**Actual results
acc to EN 10204 - 3.1**

Wire/strip

Auxiliary:

C	0.09%
Si	0.49%
Mn	1.66%
P	0.015%
S	0.009%
Cr	0.31%
Ni	1.36%
Mo	0.20%
Cu	0.10%
Ti	< 0.01%
V	0.07%
Al	< 0.01%
Zr	< 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: 2012-06-08

Certificate number: EC22479927 rev. 0

Our order: 393579
Our reference: Line Cambien France
Customer number: NLB00152
Customer order date: 20120607

Your order: 20031053089
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

DELIVERY

Lot number: PV221037892B

Quantity: 2000 KGM

PRODUCT

Brand: ESAB
Description: OK AristoRod 69 1.2mm 250kg
Item number: 1B29129320

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

CLASSIFICATIONS

EN ISO 16834-A G 69 4 M Mn3Ni1CrMo
EN ISO 16834-A G Mn3Ni1CrMo
SFA/AWS A5.28 ER110S-G

C	0.09%
Si	0.54%
Mn	1.75%
P	0.011%
S	0.006%
Cr	0.32%
Ni	1.43%
Mo	0.21%
Cu	0.03%
Ti	< 0.01%
V	0.09%
Al	< 0.01%
Zr	< 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>
730 MPa	800 MPa	19 %

IMPACT

<u>Temp</u>	<u>KV</u>
-40 °C	55 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: 2011-12-06

Certificate number: EC22243329 rev. 0

Our order: 15540625
Our reference: Rutger VISSER
Customer number: 30077244
Customer order date: 20111205

Your order: 20031012611
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: PV137029696B

Quantity: 1000 KG

PRODUCT

Brand: ESAB
Description: OK AristoRod 69 1.2mm 250kg
Item number: 1B29129320

CLASSIFICATIONS

EN ISO 16834-A G 69 4 M Mn3Ni1CrMo
EN ISO 16834-A G Mn3Ni1CrMo
SFA/AWS A5.28 ER110S-G

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>
730 MPa	800 MPa	19 %

IMPACT

<u>Temp</u>	<u>KV</u>
-40 °C	55 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.09%
Si	0.51%
Mn	1.67%
P	0.014%
S	0.008%
Cr	0.30%
Ni	1.38%
Mo	0.20%
Cu	0.02%
Ti	< 0.01%
V	0.07%
Al	< 0.01%
Zr	< 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: 2011-03-31

Certificate number: EC21934121 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: PV103015663B

Quantity: 250 KG

PRODUCT

Brand: ESAB
Description: OK AristoRod 69 1.2mm 250kg
Item number: 1B29129320

CLASSIFICATIONS

EN ISO 16834-A G 69 4 M Mn3Ni1CrMo
EN ISO 16834-A G Mn3Ni1CrMo
SFA/AWS A5.28 ER110S-G

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.09%
Si	0.50%
Mn	1.66%
P	0.015%
S	0.012%
Cr	0.35%
Ni	1.36%
Mo	0.22%
Cu	0.10%
Ti	< 0.01%
V	0.08%
Al	0.01%
Zr	< 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>
730 MPa	800 MPa	19 %

IMPACT

<u>Temp</u>	<u>KV</u>
-40 °C	55 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: 2011-11-07

Certificate number: EC22206645 rev. 0

Our order: 15535838
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20111107

Your order: 20031006186
Your reference:
Your fax number:
Your e-mail:

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

Receiver of certificate

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

DELIVERY

Lot number: PV138422976B

Quantity: 1000 KG

PRODUCT

Brand: ESAB
Description: OKAristRod 69 1.2mm250kg
Item number: 1E29129320

CLASSIFICATIONS

EN ISO 16834-A G69 4 MMh3N1QMb
EN ISO 16834-A GMh3N1QMb
SFA/AWS A5.28 ER110S-G

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>
730 MPa	800 MPa	19 %

IMPACT

<u>Temp</u>	<u>KV</u>
-40 °C	55 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.09%
Si	0.52%
Mn	1.66%
P	0.015%
S	0.008%
Cr	0.30%
N	1.34%
Mo	0.23%
Cu	0.02%
Ti	<0.01%
V	0.07%
Al	<0.01%
Zr	<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: 2011-09-02

Certificate number: EC22119718 rev. 0

Our order: 15525931
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20110902

Your order: 20030992093
Your reference:
Your fax number:
Your e-mail:

Invoice address
ZEVJ B.V. LASAULEC CENTRAAL HVEEN
Licht. 400
POSTBUS 447
4900 AK OOSTERHOUT
Netherlands

Receiver of certificate

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

DELIVERY

Lot number: PV118318446B

Quantity: 1000 KG

PRODUCT

Brand: ESAB
Description: CKAristoRod 69 1.2mm250kg
Item number: 1B29129320

CLASSIFICATIONS

EN ISO 16834-A: G69 4 MMh3N1CrMb
EN ISO 16834-A: GMh3N1CrMb
SFA/AWS A5.28: ER110S-G

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.08%
Si	0.59%
Mn	1.74%
P	0.007%
S	0.006%
Cr	0.31%
N	1.33%
Mo	0.24%
Cu	0.07%
Ti	<0.01%
V	0.08%
Al	<0.01%
Zr	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>
730 MPa	800 MPa	19 %

IMPACT

<u>Temp</u>	<u>KV</u>
-40 °C	55 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 Macsek

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



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

Date: 2012-04-13

Certificate number: EC22405974 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: PV210037187B

Quantity: 1000 BX

PRODUCT

Brand: ESAB
Description: OK AristRod 69 1.2mm 250kg
Item number: 1E29129320

CLASSIFICATIONS

EN ISO 16834-A G 69 4 M Mn3Ni1CrMo
EN ISO 16834-A G Mn3Ni1CrMo
SFA/AWS A5.28 ER110S-G

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>
730 MPa	800 MPa	19 %

IMPACT

<u>Temp</u>	<u>KV</u>
-40 °C	55 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.10%
Si	0.53%
Mn	1.72%
P	0.014%
S	0.011%
Cr	0.35%
Ni	1.33%
Mo	0.21%
Cu	0.10%
Ti	< 0.01%
V	0.08%
Al	0.01%
Zr	< 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: 2011-04-14

Certificate number: EC21951034 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: PV112316278B

Quantity: 1000 KG

PRODUCT

Brand: ESAB
Description: OK AristoRod 69 1.2mm 250kg
Item number: 1B29129320

CLASSIFICATIONS

EN ISO 16834-A G 69 4 M Mn3Ni1CrMo
EN ISO 16834-A G Mn3Ni1CrMo
SFA/AWS A5.28 ER110S-G

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.09%
Si	0.53%
Mn	1.63%
P	0.013%
S	0.010%
Cr	0.32%
Ni	1.36%
Mo	0.23%
Cu	0.02%
Ti	< 0.01%
V	0.07%
Al	< 0.01%
Zr	< 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>
730 MPa	800 MPa	19 %

IMPACT

<u>Temp</u>	<u>KV</u>
-40 °C	55 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: 2012-04-12

Certificate number: EC22404613 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

ZEVU 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: PV214037189B

Quantity: 500 BX

PRODUCT

Brand: ESAB
Description: OK.AristoRod 69 1.2mm.250kg
Item number: 1B29129320

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

CLASSIFICATIONS

EN ISO 16834-A G 69 4 M Mn3Ni1CrMo
EN ISO 16834-A G Mn3Ni1CrMo
SFA/AWS A5.28 ER110S-G

Wire/strip

Auxiliary:

C 0.10%
Si 0.48%
Mn 1.66%
P 0.015%
S 0.011%
Cr 0.29%
Ni 1.32%
Mo 0.20%
Cu 0.03%
Ti < 0.01%
V 0.07%
Al < 0.01%
Zr < 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
730 MPa 800 MPa 19 %

IMPACT

Temp KV
-40 °C 55 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: 2011-04-14

Certificate number: EC21951036 rev. 0

Our order: 15479555
Our reference: Line Cambien
Customer number: 30077244
Customer order date: 20110406

Your order: 20030961466
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: PV112420989B

Quantity: 1000 KG

PRODUCT

Brand: ESAB
Description: OK AristoRod 69 1.2mm 250kg
Item number: 1B29129320

CLASSIFICATIONS

EN ISO 16834-A G 69 4 M Mn3Ni1CrMo
EN ISO 16834-A G Mn3Ni1CrMo
SFA/AWS A5.28 ER110S-G

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>
730 MPa	800 MPa	19 %

IMPACT

<u>Temp</u>	<u>KV</u>
-40 °C	55 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.09%
Si	0.57%
Mn	1.70%
P	0.010%
S	0.006%
Cr	0.31%
Ni	1.35%
Mo	0.24%
Cu	0.02%
Ti	< 0.01%
V	0.08%
Al	< 0.01%
Zr	< 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