



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

Date: 2013-04-11

Certificate number: **EC22892579 rev. 0**

Our order: 585517
Our reference: Nicole Javaux France
Customer number: NLB00152
Customer order date: 20130409

Your order: **20031117837**
Your reference:
Your fax number:
Your e-mail:

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

Receiver of certificate

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

DELIVERY

Lot number: PV313310224

Quantity: 4

PRODUCT

Brand: ESAB
Description: OK Autrod 12.51 1.0mm 250kg
Item number: **1251109320**

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
SFA/AWS A5.18 ER70S-6
CAN/CSA-ISO 14341 B-G 49A 3 C G6

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21 (EN 439)
Condition:

TENSILE

<u>ReL</u>	<u>Rm</u>	<u>A4-A5</u>
470 MPa	560 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	1.43%
P	0.012%
S	0.018%
Cr	0.03%
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: 2013-04-11

Certificate number: **EC22892580 rev. 0**

Our order: 585517
Our reference: Nicole Javaux France
Customer number: NLB00152
Customer order date: 20130409

Your order: **20031117837**
Your reference:
Your fax number:
Your e-mail:

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

Receiver of certificate

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

DELIVERY

Lot number: PV312818053

Quantity: 2

PRODUCT

Brand: ESAB
Description: OK Autrod 12.64 1.0mm 18kg
Item number: **1264107710**

CLASSIFICATIONS

EN ISO 636-A W 46 3 W4Si1
EN ISO 636-A W4Si1
EN ISO 14341-A G 4Si1
EN ISO 14341-A G 42 2 C1 4Si1
EN ISO 14341-A G 46 3 M21 4Si1
SFA/AWS A5.18 ER70S-6

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>
525 MPa	595 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	0.92%
Mn	1.62%
P	0.013%
S	0.011%
Cr	0.03%
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

Milan Macek

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



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

Date: 2013-04-11

Certificate number: **EC22892581 rev. 0**

Our order: 585517
Our reference: Nicole Javaux France
Customer number: NLB00152
Customer order date: 20130409

Your order: **20031117837**
Your reference:
Your fax number:
Your e-mail:

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

Receiver of certificate

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

DELIVERY

Lot number: PV311051582B

Quantity: 4

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	0.10%
Si	0.50%
Mn	1.65%
P	0.013%
S	0.006%
Cr	0.29%
Ni	1.32%
Mo	0.22%
Cu	0.10%
Ti	< 0.01%
V	0.08%
Al	< 0.01%
Zr	< 0.01%
Ti+Zr	< 0.01%

COMMENTS

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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: 2013-04-11

Certificate number: **EC22892582 rev. 0**

Our order: 585517
Our reference: Nicole Javaux France
Customer number: NLB00152
Customer order date: 20130409

Your order: **20031117837**
Your reference:
Your fax number:
Your e-mail:

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

Receiver of certificate

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

DELIVERY

Lot number: SF112109

Quantity: 210

PRODUCT

Brand: ESAB
Description: OK 53.05 4.0 X 350 1/2 VP
Item number: **53054034G0**

CLASSIFICATIONS

SFA/AWS A5.1 E7016
EN ISO 2560-A E 42 4 B 22 H10

CHEMICAL COMPOSITION

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

All weld metal

Auxiliary:

C	0.08%
Si	0.52%
Mn	0.89%
P	0.016%
S	0.009%
Cr	0.05%
Ni	0.02%
Mo	< 0.1%
Nb	< 0.01%
Cu	< 0.1%
V	0.01%

MECHANICAL PROPERTIES

**Typical data
acc to EN 10204 - 2.2**

Standard:
Auxiliary:
Condition:

TENSILE

<u>ReL</u>	<u>Rm</u>	<u>A4-A5</u>
470 MPa	540 MPa	28 %

IMPACT

<u>Temp</u>	<u>KV</u>
-51 °C	60 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

Pál Dranka

Quality Assurance Manager

Validation - Others

Tony Dray

Product Manager