



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

Date: 2013-07-22

Certificate number: EC23046371 rev. 0

Our order: 643242
Our reference: Nicole Javaux France
Customer number: NLB00152
Customer order date: 20130704

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

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

Receiver of certificate

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

DELIVERY

Lot number: RB1323072

Quantity: 100

PRODUCT

Brand: ESAB
Description: OK Tigrod 5356 3.2x1000mm 2.5kg
Item number: 181532R120

CLASSIFICATIONS

SFA/AWS A5.10 R5356
EN ISO 18273 S Al 5356 (AlMg5Cr(A))
JIS Z 3232 A5356

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard:
Auxiliary:
Condition:

TENSILE

<u>Rp0.2</u>	<u>Rm</u>	<u>A4-A5</u>
120 MPa	265 MPa	26 %

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

Si	0.04%
Mn	0.14%
Cr	0.06%
Cu	<0.01%
Ti	0.07%
Al	94.0%
Fe	0.10%
Mg	5.0%
Zn	<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

William Hamilton

Quality Assurance Manager

Validation - Others

Michael Spiess

Product Manager



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

Date: 2013-07-22

Certificate number: EC23046372 rev. 0

Our order: 643242
Our reference: Nicole Javaux France
Customer number: NLB00152
Customer order date: 20130704

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

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

Receiver of certificate

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

DELIVERY

Lot number: PV328056781

Quantity: 43

PRODUCT

Brand: ESAB
Description: OK Autrod 12.51 1.0mm 18kg
Item number: 1251107710

CLASSIFICATIONS

EN ISO 14341-A G3S1
EN ISO 14341-A G38 2 C1 3S1
EN ISO 14341-A G42 3 M21 3S1
SFA/AWS A5.18 ER70S-6
CAN/CSA-ISO 14341 B-G49A3 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	0.08%
Si	0.87%
Mn	1.51%
P	0.013%
S	0.015%
Cr	0.07%
N	0.04%
Mo	0.01%
Cu	0.11%
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

Milan Macek

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



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

Date: 2013-07-22

Certificate number: EC23046373 rev. 0

Our order: 647433
Our reference: Nicole Javaux France
Customer number: NLB00152
Customer order date: 20130704

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

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

Receiver of certificate

Delivery address
LASAULEC CENTRAAL B.V.
Lidh: 400
KUPER 2
8447 GK HEEFENVEEN

DELIVERY

Lot number: SF211114

Quantity: 1080

PRODUCT

Brand: ESAB
Description: OK 46.64 3.2x350mm
Item number: 4664323400

CLASSIFICATIONS

SFA/AWS A5.1 E6012
EN ISO 2560-A E38 0 RC 11

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

All weld metal

Auxiliary:

C	0.10%
Si	0.47%
Mn	0.6%
P	0.023%
S	0.012%

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard:
Auxiliary:
Condition:

TENSILE

<u>ReL</u>	<u>Rm</u>	<u>A4-A5</u>
450 MPa	540 MPa	26 %

IMPACT

<u>Temp</u>	<u>KV</u>
0 °C	80 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

Pál Dranka

Quality Assurance Manager

Validation - Others

Karin Karlsson

Product Manager



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

Date: 2013-07-22

Certificate number: EC23046374 rev. 0

Our order: 647433
Our reference: Nicole Javaux France
Customer number: NLB00152
Customer order date: 20130704

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

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

Receiver of certificate

Delivery address
LASAULEC CENTRAAL B.V.
Lidh: 400
KUPER 2
8447 GK HEEFENVEEN

DELIVERY

Lot number: SF317118

Quantity: 5400

PRODUCT

Brand: ESAB
Description: OK 46.64 3.2x350mm
Item number: 4664323400

CLASSIFICATIONS

SFA/AWS A5.1 E6012
EN ISO 2560-A E38 0 RC 11

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

All weld metal

Auxiliary:

C	0.08%
Si	0.37%
Mn	0.5%
P	0.018%
S	0.007%

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard:
Auxiliary:
Condition:

TENSILE

<u>ReL</u>	<u>Rm</u>	<u>A4-A5</u>
450 MPa	540 MPa	26 %

IMPACT

<u>Temp</u>	<u>KV</u>
0 °C	80 J

COMMENTS

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Product Manager