



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

Date: 2011-09-12

Certificate number: EC22130265 rev. 0

Our order: 15527072
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20110909

Your order: 20030993603
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: PV133029206

Quantity: 10 KG

PRODUCT

Brand: ESAB
Description: OK Tigrod 12.60 2.4x1000mm 5kg
Item number: 126024R150

CLASSIFICATIONS

EN ISO 636-A W 38 3 W2Si
EN ISO 636-A W2Si
SFA/AWS A5.18 ER70S-3

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: I1
Condition:

TENSILE

<u>ReL</u>	<u>Rm</u>	<u>A4-A5</u>
420 MPa	515 MPa	26 %

IMPACT

<u>Temp</u>	<u>KV</u>
-30 °C	90 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.09%
Si	0.54%
Mn	1.00%
P	0.021%
S	0.011%
Cr	0.07%
Ni	0.02%
Mo	0.01%
Cu	0.07%
V	< 0.01%
Al	0.003%
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: 2011-04-01

Certificate number: EC21935644 rev. 0

Our order: 15477708
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20110401

Your order: 20030960458
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: PV101019134

Quantity: 10 KG

PRODUCT

Brand: ESAB
Description: OK Tigrod 12.60 2.4x1000mm 5kg
Item number: 126024R150

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

CLASSIFICATIONS

EN ISO 636-A W 38 3 W2Si
EN ISO 636-A W2Si
SFA/AWS A5.18 ER70S-3

C	0.08%
Si	0.56%
Mn	1.01%
P	0.023%
S	0.016%
Cr	0.06%
Ni	0.01%
Mo	0.01%
Cu	0.06%
V	< 0.01%
Al	0%
Al	< 0.01%
Ti+Zr	0.01%

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: I1
Condition:

TENSILE

<u>ReL</u>	<u>Rm</u>	<u>A4-A5</u>
420 MPa	515 MPa	26 %

IMPACT

<u>Temp</u>	<u>KV</u>
-30 °C	90 J

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: 2012-03-16

Certificate number: EC22370582 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
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: PV204033160

Quantity: 5 BX

PRODUCT

Brand: ESAB
Description: OK Tigrod 12.60 2.4x1000mm5kg
Item number: 126024R150

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

CLASSIFICATIONS

EN ISO 636-A W38.3 W2Si
EN ISO 636-A W2Si
SFA/AWS A5.18 ER70S-3

Wire/strip

Auxiliary:

C	0.08%
Si	0.57%
Mn	1.00%
P	0.017%
S	0.011%
Cr	0.07%
Ni	0.02%
Mo	0.01%
Cu	0.07%
V	< 0.01%
Al	0.001%
Al	< 0.01%
Ti+Zr	0.01%

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: I1
Condition:

TENSILE

<u>Rel</u>	<u>Rm</u>	<u>A4-A5</u>
420 MPa	515 MPa	26 %

IMPACT

<u>Temp</u>	<u>KV</u>
-30 °C	90 J

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: 2012-03-23

Certificate number: EC22380399 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: PV208033152

Quantity: 5 BX

PRODUCT

Brand: ESAB
Description: OK Tigrod 12.60 2.4x1000mm5kg
Item number: 126024R150

CLASSIFICATIONS

EN ISO 636-A W38 3 V2Si
EN ISO 636-A V2Si
SFA/AWS A5.18 ER70S-3

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: I1
Condition:

TENSILE

Rel Rm A4-A5
420 MPa 515 MPa 26 %

IMPACT

Temp KV
-30 °C 90 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.07%
Si	0.55%
Mn	1.02%
P	0.014%
S	0.015%
Cr	0.07%
Ni	0.03%
Mo	0.01%
Cu	0.10%
V	< 0.01%
Al	0.002%
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: 2012-02-10

Certificate number: EC22323115 rev. 0

Our order: 15550495
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20120210

Your order: 20031026963
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: PV149033159

Quantity: 10 BX

PRODUCT

Brand: ESAB
Description: OK Tigrod 12.60 2.4x1000mm5kg
Item number: 126024R150

CLASSIFICATIONS

EN ISO 636-A W38 3 W2Si
EN ISO 636-A W2Si
SFA/AWS A5.18 ER70S-3

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.08%
Si	0.56%
Mn	0.96%
P	0.015%
S	0.011%
Cr	0.06%
Ni	0.02%
Mo	0.01%
Cu	0.14%
V	< 0.01%
Al	0.001%
Al	< 0.01%
Ti+Zr	0.01%

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: I1
Condition:

TENSILE

<u>Rel</u>	<u>Rm</u>	<u>A4-A5</u>
420 MPa	515 MPa	26 %

IMPACT

<u>Temp</u>	<u>KV</u>
-30 °C	90 J

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: 2012-01-24

Certificate number: EC22297122 rev. 0

Our order: 15547077
Our reference: VAN KELLER Marina
Customer number: 30077244
Customer order date: 20120123

Your order: 20031021990
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: PV144029210

Quantity: 5 KG

PRODUCT

Brand: ESAB
Description: OK Tigrod 12.60 2.4x1000mm 5kg
Item number: 126024R150

CLASSIFICATIONS

EN ISO 636-A W 38 3 W2Si
EN ISO 636-A W2Si
SFA/AWS A5.18 ER70S-3

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: I1
Condition:

TENSILE

<u>ReL</u>	<u>Rm</u>	<u>A4-A5</u>
420 MPa	515 MPa	26 %

IMPACT

<u>Temp</u>	<u>KV</u>
-30 °C	90 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.08%
Si	0.55%
Mn	1.00%
P	0.019%
S	0.013%
Cr	0.06%
Ni	0.02%
Mo	0.01%
Cu	0.09%
V	< 0.01%
Al	0.002%
Al	< 0.01%
Ti+Zr	0.01%

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KUPER 2
8447 GK HEERENVEEN
Netherlands

DELIVERY

Lot number: PV133029206

Quantity: 10 KG

PRODUCT

Brand: ESAB
Description: OK Tigrod 12.60 2.4x1000mm 5kg
Item number: 126024R150

CLASSIFICATIONS

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EN ISO 636-A W2Si
SFA/AWS A5.18 ER70S-3

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Auxiliary:

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P	0.021%
S	0.011%
Cr	0.07%
Ni	0.02%
Mo	0.01%
Cu	0.07%
V	< 0.01%
Al	0.003%
Al	< 0.01%
Ti+Zr	0.01%

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Validation - Chemical Analysis

Milan Macek

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager