



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

Date: 2012-06-04

Certificate number: EC22472153 rev. 0

Our order: 388977
Our reference: Line Cambien France
Customer number: NLB00152
Customer order date: 20120531

Your order: 20031051521
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: PV215793226

Quantity: 50 KGM

PRODUCT

Brand: ESAB
Description: OK Tigrod 12.64 2.0x1000mm 5kg
Item number: 126420R150

CLASSIFICATIONS

EN ISO 636-A W46 3 W4Si1
EN ISO 636-A W4Si1
SFA/AWS A5.18 ER70S-6

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: I1
Condition:

TENSILE

ReL	Rm	A4-A5
525 MPa	595 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	0.89%
Mn	1.65%
P	0.013%
S	0.007%
Cr	0.03%
Ni	0.01%
Mo	< 0.01%
Cu	0.05%
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: 2011-09-30

Certificate number: EC22158631 rev. 0

Our order: 15530490
Our reference: Line Cambien
Customer number: 30077244
Customer order date: 20110930

Your order: 20030998156
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: PV122959870

Quantity: 20 KG

PRODUCT

Brand: ESAB
Description: OK Tigrod 12.64 2.0x1000mm 5kg
Item number: 126420R150

CLASSIFICATIONS

EN ISO 636-A W46 3 W4Si1
EN ISO 636-A W4Si1
SFA/AWS A5.18 ER70S-6

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>
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	0.07%
Si	0.92%
Mn	1.60%
P	0.009%
S	0.010%
Cr	0.02%
Ni	0.01%
Mo	0.01%
Cu	0.08%
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: 2011-04-08

Certificate number: EC21943979 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: PV106759327

Quantity: 50 KG

PRODUCT

Brand: ESAB
Description: OK Tigrod 12.64 2.0x1000mm 5kg
Item number: 126420R150

CLASSIFICATIONS

EN ISO 636-A W 46 3 W4Si1
EN ISO 636-A W4Si1
SFA/AWS A5.18 ER70S-6

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>
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	0.96%
Mn	1.66%
P	0.013%
S	0.008%
Cr	0.03%
Ni	0.01%
Mo	0.01%
Cu	0.05%
V	< 0.01%
Al	< 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

Josef Mysak

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



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

Date: 2011-11-25

Certificate number: EC22231116 rev. 0

Our order: 15539121
Our reference: Javaux Nicole
Customer number: 30077244
Customer order date: 20111125

Your order: 20031011071
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: PV116956410

Quantity: 10 KG

PRODUCT

Brand: ESAB
Description: OK Tigrod 12.64 2.0x1000mm 5kg
Item number: 126420R150

CLASSIFICATIONS

EN ISO 636-A W 46 3 W4Si1
EN ISO 636-A W4Si1
SFA/AWS A5.18 ER70S-6

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.07%
Si	0.96%
Mn	1.66%
P	0.007%
S	0.012%
Cr	0.02%
Ni	0.01%
Mo	0.01%
Cu	0.09%
V	< 0.01%
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>
525 MPa	595 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

Milan Macek

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



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

Date: 2012-01-06

Certificate number: EC22273639 rev. 0

Our order: 15544716
Our reference: VAN KELLER Marina
Customer number: 30077244
Customer order date: 20120106

Your order: 20031018825
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: PV134770453

Quantity: 50 KG

PRODUCT

Brand: ESAB
Description: OK Tigrod 12.64 2.0x1000mm5kg
Item number: 126420R150

CLASSIFICATIONS

EN ISO 636-A W46.3 W4Si1
EN ISO 636-A W4Si1
SFA/AWS A5.18 ER70S-6

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: I1
Condition:

TENSILE

ReL	Rm	A4-A5
525 MPa	595 MPa	26 %

IMPACT

Temp	KV
-30 °C	70 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wre/strip

Auxiliary:

C	0.08%
Si	0.98%
Mn	1.67%
P	0.011%
S	0.006%
Cr	0.03%
Ni	0.02%
Mo	0.01%
Cu	0.04%
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: 2011-09-02

Certificate number: EC22119714 rev. 0

Our order: 15525931
Our reference: Westman 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 HEEFENVEEN
Netherlands

DELIVERY

Lot number: PV115927960

Quantity: 50 KG

PRODUCT

Brand: ESAB
Description: CK Tigrod 12.64 2.0x1000mm5kg
Item number: 126420R150

CLASSIFICATIONS

EN ISO 636-A: W46 3 W4S1
EN ISO 636-A: W4S1
SFA/AWS A5.18: ER70S-6

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.08%
Si	0.97%
Mn	1.64%
P	0.015%
S	0.016%
Cr	0.02%
N	0.01%
Mo	0.01%
Cu	0.09%
V	<0.01%
Al	<0.01%
Ti+Zr	0.01%

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: I1
Condition:

TENSILE

Rel	Rm	A4-A5
525 MPa	595 MPa	26 %

IMPACT

Temp	KV
-30 °C	70 J

COMMENTS

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Validation - Chemical Analysis

Milan Maack

Quality Manager

Validation - Others

Per-Erik Andersson

Product Manager



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

Date: 2012-01-26

Certificate number: EC22301046 rev. 0

Our order: 15547877
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20120126

Your order: 20031023124
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: PV142033902

Quantity: 100 BX

PRODUCT

Brand: ESAB
Description: OK Tigrod 12.64 2.0x1000mm 5kg
Item number: 126420R150

CLASSIFICATIONS

EN ISO 636-A W 46 3 W4Si1
EN ISO 636-A W4Si1
SFA/AWS A5.18 ER70S-6

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>
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	0.84%
Mn	1.66%
P	0.014%
S	0.009%
Cr	0.04%
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