



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

Date: 2011-09-23

Certificate number: EC22147838 rev. 0

Our order: 15529362
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20110923

Your order: 20030996646
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: PV119022233

Quantity: 15 KG

PRODUCT

Brand: ESAB
Description: OK Tigrod 12.60 1.6x1000mm5kg
Item number: 126016R150

CLASSIFICATIONS

EN ISO 636-A W38 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	0.59%
Mn	1.03%
P	0.014%
S	0.014%
Cr	0.06%
Ni	0.03%
Mo	0.02%
Cu	0.07%
V	< 0.01%
Al	0.002%
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: 2011-04-07

Certificate number: EC21942082 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: PV110019136

Quantity: 10 KG

PRODUCT

Brand: ESAB
Description: OK Tigrod 12.60 1.6x1000mm 5kg
Item number: 126016R150

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

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	0.08%
Si	0.61%
Mn	1.03%
P	0.014%
S	0.014%
Cr	0.05%
Ni	0.01%
Mo	0.01%
Cu	0.13%
V	< 0.01%
Al	0.001%
Al	< 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



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

Date: 2011-03-30

Certificate number: EC21931824 rev. 0

Our order: 15476537
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20110330

Your order: 20030959809
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: PV103019134

Quantity: 5 KG

PRODUCT

Brand: ESAB
Description: OK Tigrod 12.60 1.6x1000mm 5kg
Item number: 126016R150

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	0.56%
Mn	1.01%
P	0.023%
S	0.016%
Cr	0.06%
Ni	0.01%
Mo	0.01%
Cu	0.05%
V	< 0.01%
Al	0%
Al	< 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



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

Date: 2012-03-16

Certificate number: EC22370581 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: PV140029208

Quantity: 5 BX

PRODUCT

Brand: ESAB
Description: OK Tigrod 12.60 1.6x1000mm5kg
Item number: 126016R150

CLASSIFICATIONS

EN ISO 636-A W38 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

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	0.09%
Si	0.56%
Mn	1.00%
P	0.020%
S	0.016%
Cr	0.05%
Ni	0.02%
Mo	0.01%
Cu	0.06%
V	< 0.01%
Al	0%
Al	< 0.01%
Ti+Zr	0.01%

COMMENTS

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Milan Macek

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