



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

Date: 2011-03-11

Certificate number: EC21910427 rev. 0

Our order: 15470382
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20110311

Your order: 20030955596
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: PV0501013300

Quantity: 115 KG

PRODUCT

Brand: ESAB
Description: OK Tigrod 316LSi 2.4x1000 5kg
Item number: 163224R150

CLASSIFICATIONS

EN ISO 14343 W 19 12 3 LSi
SFA/AWS A5.9 ER316LSi
Werkstoffnummer ~1.4430

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>
450 MPa	600 MPa	35 %

IMPACT

<u>Temp</u>	<u>KV</u>
-60 °C	95 J
-110 °C	150 J

COMMENTS

CHEMICAL COMPOSITION

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

Wire/strip

Auxiliary:

C	0.01%
Si	0.70%
Mn	1.5%
P	0.02%
S	0.01%
Cr	18.2%
Ni	12.0%
Mo	2.5%
Cu	0.09%
N	0.050%
Ferrite FN	7

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

Josef Mysak Quality Manager

Validation - Others

Per-Åke Pettersson

Product Manager



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

Date: 2012-04-06

Certificate number: EC22398952 rev. 0

Our order: 15558790
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20120406

Your order: 20031040056
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: PV2025308124

Quantity: 10 KG

PRODUCT

Brand: ESAB
Description: OK Tigrod 316LSi 2.4x1000 5kg
Item number: 163224R150

CLASSIFICATIONS

EN ISO 14343-A W19 12.3 L Si
SFA/AWS A5.9 ER316LSi
Werkstoffnummer ~1.4430

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.01%
Si	0.73%
Mn	1.6%
P	0.02%
S	0.02%
Cr	18.3%
Ni	11.9%
Mo	2.5%
Cu	0.10%
N	0.052%
Ferrite FN	8

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>
450 MPa	600 MPa	35 %

IMPACT

<u>Temp</u>	<u>KV</u>
+20 °C	175 J
-110 °C	150 J

COMMENTS

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Validation - Chemical Analysis

Milan Macek

Quality Manager

Validation - Others

Mikael Mimer

Product Manager



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

Date: 2012-04-06

Certificate number: EC22396953 rev. 0

Our order: 15558790
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20120406

Your order: 20031040056
Your reference:
Your fax number:
Your e-mail:

Invoice address
ZEVIJ B.V. LASAULEC CENTRAAL HVEEN
Lidn. 400
POSTBUS 447
4900 AK OOSTERHOUT
Netherlands

Receiver of certificate

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

DELIVERY

Lot number: PV2075314700

Quantity: 140 KG

PRODUCT

Brand: ESAB
Description: OK Tigrod 316LSi 2.4x1000 5kg
Item number: 163224R150

CLASSIFICATIONS

EN ISO 14343-A W19 12.3 L Si
SFA/AWS A5.9 ER316LSi
Werkstoffnummer ~1.4430

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.01%
Si	0.82%
Mn	1.8%
P	0.02%
S	0.01%
Cr	18.1%
Ni	11.7%
Mo	2.6%
Cu	0.09%
N	0.042%
Ferrite FN	9

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>
450 MPa	600 MPa	35 %

IMPACT

<u>Temp</u>	<u>KV</u>
+20 °C	175 J
-110 °C	150 J

COMMENTS

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Validation - Chemical Analysis

Milan Macek

Quality Manager

Validation - Others

Mikael Mimer

Product Manager



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

Date: 2011-11-07

Certificate number: EC22206628 rev. 0

Our order: 15535838
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20111107

Your order: 20031006186
Your reference:
Your fax number:
Your e-mail:

Invoice address
ZEVJ B.V. LASAULEC CENTRAALHVEEN
Lichr. 400
POSTBUS 447
4800 AK OOSTERHOUT
Netherlands

Receiver of certificate

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

DELIVERY

Lot number: PV1385296801

Quantity: 150 KG

PRODUCT

Brand: ESAB
Description: CK Tigrod 316LSI 2.4x1000 5kg
Item number: 163224R150

CLASSIFICATIONS

EN ISO 14343-A: W19 12 3 L S
SFA/AWS A5.9: ER316LSI
Verkstoffsnummer: ~1.4430

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>
450 MPa	600 MPa	35 %

IMPACT

<u>Temp</u>	<u>KV</u>
-60 °C	95 J
-110 °C	150 J

COMMENTS

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.01%
Si	0.70%
Mn	1.6%
P	0.02%
S	0.01%
Cr	18.4%
N	11.9%
Mo	2.5%
Cu	0.09%
N	0.038%
Ferrite FN	9

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Validation - Chemical Analysis

Milan Macsek

Quality Manager

Validation - Others

Mikael Mimer

Product Manager



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

Date: 2011-03-11

Certificate number: **EC21910428 rev. 0**

Our order: 15470382
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20110311

Your order: 20030955596
Your reference:
Your fax number:
Your e-mail:

Invoice address

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Receiver of certificate

Delivery address

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Lidnr. 400
KUPER 2
8447 GK HEERENVEEN
Netherlands

DELIVERY

Lot number: PV1020440480

Quantity: 35 KG

PRODUCT

Brand: ESAB
Description: OK Tigrod 316LSi 2.4x1000 5kg
Item number: 163224R150

CLASSIFICATIONS

EN ISO 14343 W 19 12 3 LSi
SFA/AWS A5.9 ER316LSi
Werkstoffnummer ~1.4430

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>
450 MPa	600 MPa	35 %

IMPACT

<u>Temp</u>	<u>KV</u>
-60 °C	95 J
-110 °C	150 J

COMMENTS

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.01%
Si	0.70%
Mn	1.5%
P	0.02%
S	0.01%
Cr	18.0%
Ni	12.0%
Mo	2.5%
Cu	0.09%
N	0.052%
Ferrite FN	6

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Validation - Chemical Analysis

Josef Mysak

Quality Manager

Validation - Others

Per-Åke Pettersson

Product Manager