



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

Date: 2012-03-05

Certificate number: EC22352998 rev. 0

Our order: 15553882
Our reference: Westerman Jolanda
Customer number: 30077244
Customer order date: 20120302

Your order: 20031031895
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: PV202029701B

Quantity: 1008 BX

PRODUCT

Brand: ESAB
Description: OK Aristorod 69 1.0mm 18kg
Item number: 1B29106910

CLASSIFICATIONS

EN ISO 16834-A G 69 4 M Mn3Ni1CrMo
EN ISO 16834-A G Mn3Ni1CrMo
SFA/AWS A5.28 ER110S-G

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.09%
Si	0.45%
Mn	1.63%
P	0.015%
S	0.011%
Cr	0.28%
Ni	1.38%
Mo	0.21%
Cu	0.03%
Ti	< 0.01%
V	0.07%
Al	< 0.01%
Zr	< 0.01%
Ti+Zr	< 0.01%

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21
Condition:

TENSILE

<u>Rel</u>	<u>Rm</u>	<u>A4-A5</u>
730 MPa	800 MPa	19 %

IMPACT

<u>Temp</u>	<u>KV</u>
-40 °C	55 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

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: EC21943985 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: PV112022731B

Quantity: 1008 KG

PRODUCT

Brand: ESAB
Description: OK AristoRod 69 1.0mm 18kg
Item number: 1B29106910

CLASSIFICATIONS

EN ISO 16834-A G 69 4 M Mn3Ni1CrMo
EN ISO 16834-A G Mn3Ni1CrMo
SFA/AWS A5.28 ER110S-G

MECHANICAL PROPERTIES

Typical data
acc to EN 10204 - 2.2

Standard: EN
Auxiliary: M21
Condition:

TENSILE

<u>ReL</u>	<u>Rm</u>	<u>A4-A5</u>
730 MPa	800 MPa	19 %

IMPACT

<u>Temp</u>	<u>KV</u>
-40 °C	55 J

CHEMICAL COMPOSITION

Actual results
acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

C	0.10%
Si	0.48%
Mn	1.64%
P	0.012%
S	0.008%
Cr	0.30%
Ni	1.38%
Mo	0.21%
Cu	0.04%
Ti	< 0.01%
V	0.08%
Al	< 0.01%
Zr	< 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