



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

Date: 2013-09-09

Certificate number: EC23109272 rev. 0

Our order: 677929  
Our reference: Mariette Villieu  
Customer number: NLB00152  
Customer order date: 20130829

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

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

Receiver of certificate

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

DELIVERY

Lot number: PV333347338B

Quantity: 56

## 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    | 0.56%   |
| Mn    | 1.74%   |
| P     | 0.012%  |
| S     | 0.007%  |
| Cr    | 0.32%   |
| Ni    | 1.34%   |
| Mo    | 0.23%   |
| Cu    | 0.02%   |
| 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