



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

Date: 2013-08-06

Certificate number: EC23065916 rev. 0

Our order: 655377  
Our reference: Nicole Javaux France  
Customer number: NLB00152  
Customer order date: 20130725

Your order: 20031139617  
Your reference:  
Your fax number:  
Your e-mail:

Invoice address  
ZEVIJ B.V. LASAULEC CENTRAAL HVEEN  
POSTBUS 447  
4800 AK OOSTERHOUT

Receiver of certificate

Delivery address  
975 Lasaulec ADC  
Kuper 2  
8447 GK Heerenveen

DELIVERY

Lot number: SF325175

Quantity: 2160

## PRODUCT

Brand: ESAB  
Description: OK 43.32 2.5x350mm  
Item number: 4332253400

## CLASSIFICATIONS

SFA/AWS A5.1 E6013  
EN ISO 2560-A E42 0 PR 12

## CHEMICAL COMPOSITION

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

All weld metal

Auxiliary:

|    |        |
|----|--------|
| C  | 0.07%  |
| Si | 0.35%  |
| Mn | 0.4%   |
| P  | 0.028% |
| S  | 0.010% |
| Cr | <0.1%  |
| N  | <0.1%  |
| Mo | <0.1%  |
| Nb | 0.01%  |
| Cu | 0.1%   |
| V  | 0.01%  |

## MECHANICAL PROPERTIES

**Typical data**  
acc to EN 10204 - 2.2

Standard:  
Auxiliary:  
Condition:

### TENSILE

|            |           |              |
|------------|-----------|--------------|
| <u>ReL</u> | <u>Rm</u> | <u>A4-A5</u> |
| 460 MPa    | 550 MPa   | 24 %         |

### IMPACT

|             |           |
|-------------|-----------|
| <u>Temp</u> | <u>KV</u> |
| +20 °C      | 65 J      |
| 0 °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

Pál Dranka

Quality Assurance Manager

Validation - Others

Karin Karlsson

Product Manager



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Our order: 655377  
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4800 AK OOSTERHOUT

Receiver of certificate

Delivery address  
975 Lasaulec ADC  
Kuper 2  
8447 GK Heerenveen

DELIVERY

Lot number: SB318133

Quantity: 306

## PRODUCT

Brand: ESAB  
Description: OK 63.30 2.0x300mm 1/4 VP  
Item number: 63302020LO

## CLASSIFICATIONS

EN ISO 3581-A E 19 123 L R 12  
SFA/AWS A5.4 E316L-17  
CSA W48 E316L-17  
Werkstoffnummer 1.4430

## MECHANICAL PROPERTIES

Typical data  
acc to EN 10204 - 2.2

Standard:  
Auxiliary:  
Condition:

### TENSILE

|                         |                      |                      |
|-------------------------|----------------------|----------------------|
| <u>R<sub>p0.2</sub></u> | <u>R<sub>m</sub></u> | <u>A<sub>5</sub></u> |
| 460 MPa                 | 570 MPa              | 40 %                 |

### IMPACT

|             |           |
|-------------|-----------|
| <u>Temp</u> | <u>KV</u> |
| +20 °C      | 60 J      |
| -20 °C      | 55 J      |

## COMMENTS

## CHEMICAL COMPOSITION

Actual results  
acc to EN 10204 - 3.1

All weld metal

Auxiliary:

|           |        |
|-----------|--------|
| C         | 0.03%  |
| Si        | 0.75%  |
| Mn        | 0.6%   |
| P         | 0.025% |
| S         | 0.009% |
| Cr        | 18.7%  |
| N         | 11.2%  |
| Mo        | 2.7%   |
| Cu        | 0.06%  |
| FN WRC-92 | 7      |

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Validation - Chemical Analysis

Ellen Björger

Quality Manager

Validation - Others

Tapio Huhtala

Product Manager