



Inspectiecertificaat (3.1) - Chemische analyse  
Testrapport (2.2) - Mechanische eigenschappen  
INSPECTION CERTIFICATE (3.1) - Chemical analysis  
TEST REPORT (2.2) - Mechanical properties

Datum/Date: 2023-08-31

Certificaat nummer/Cert no: EC27259735 rev. 0

ESAB ordernummer/Our order: 0100843773  
ESAB referentie/Our ref: M3PRD020  
Klantnummer/Cust no: NLB00033  
Orderdatum/Your date: 20230830

Ordernummer/Your order: 20031824767  
Referentie/Your ref:  
Faxnummer/Your fax:  
E-mail adres/Your e-mail:

Faktuuradres/Invoice address  
ZEVU BV LASAULEC HEERENVEEN  
POSTBUS 447  
4900 AK OOSTERHOUT  
Netherlands

Verzendadres certificaten/Cert receiver

Afleveradres/Delivery address  
Lasaulec Heerenveen  
Kuper 4  
HEERENVEEN  
8447 GK HEERENVEEN  
Netherlands

LEVERING/DELIVERY

Lotnummer/Lot no:

PVX1810365

Hoeveelheid/Quantity: 18 KGM

## PRODUCT/PRODUCT

Merk/Brand: ESAB  
Omschrijving/Desc: OK AristoRod 89 1.0mm 18kg  
Artikelnummer/Item no: 1B96106910  
Heat No/Heat number: 76454  
Hoeveelheid/Quantity: 18 KGM

## CHEMISCHE SAMENSTELLING/CHEMICAL ANALYSIS

Actual results: acc to EN 10204 - 3.1

### Wire/strip

|    |         |
|----|---------|
| C  | 0.09%   |
| Si | 0.88%   |
| Mn | 1.81%   |
| P  | 0.006%  |
| S  | 0.004%  |
| Cr | 0.41%   |
| Ni | 2.16%   |
| Mo | 0.57%   |
| Cu | 0.119%  |
| Ti | 0.05%   |
| V  | 0.01%   |
| Al | 0.006%  |
| Zr | < 0.01% |

## CLASSIFICATIES/CLASSIFICATIONS

EN ISO 16834-A: G 89 4 M20 Mn4Ni2CrMo  
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SFA/AWS A5.28: ER120S-G

## MECHANISCHE EIGENSCHAPPEN/MECHANICAL PROPS

Typical data: acc to EN 10204 - 2.2

### Tensile

| Standard | Shielding Gas | ReL [MPa/ksi] | Rm [MPa/ksi] | A4-A5 [%] |
|----------|---------------|---------------|--------------|-----------|
| EN       | M21           | 890/129       | 940/136      | 18        |

### Impact

| Standard | Shielding Gas | Temp [°C/°F] | KV[J/ft-lb] |
|----------|---------------|--------------|-------------|
| EN       | M21           | -40/-40      | 47/35       |

A4, A5 = Elongation  
ReH = Upper Yield Point  
ReL = Lower Yield Point  
Rm = Ultimate Tensile Strength (UTS)  
Rp0.2 = Yield Strength 0.2 offset  
Rp1.0 = Yield Strength 1.0 offset

## OPMERKINGEN/COMMENTS

Product geleverd volgens een QA systeem welke voldoet aan de ISO 9001 norm.

Dit certificaat is elektronisch aangemaakt.

Voor vragen:

Esab Nederland BV - P.O. Box 2236, 3800 CE Amersfoort, Nederland

Product supplied under a QA Programme fulfilling the EN ISO 9001 standard.

This certificate is produced electronically.

Please refer any queries to: (see above)

## Geldigheid/Validation

Josef Moravek

Quality Manager

Helene Rasmuson

Product Manager