EXPLOLABS Explosion Prevention Services (Pty) Ltd
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GOVERNMENT APPROVED TEST LABORATORY

IN TERMS OF ARP 0108: "REGULATORY REQUIREMENTS FOR EXPLOSION PROTECTED APPARATUS"

IA CERTIFICATE (IMPORT)

Date Issued: **07 Jan 2026** Certificate Validity: **07 Jan 2029**

IA Certificate Validity: *In accordance with ARP 0108 and the National Code of Practice, import IA certificates has a validity period of three (3) years from the date of issue. The IA certificate's validity period depends on the validity of the international document that it is based upon, and it is invalided should the international certificate be cancelled or the product quality assurance or notification becomes invalid. Equipment imported under a valid IA certificate and handed over to the end user, the IA Certificate validity falls away and the Ex equipmentremains compliant with the relevant standards for its lifetime, provided the equipment is maintained in its original certified configuration. No modifications are allowed. Imported apparatus not sold by the IA certificate expiry date is deemed to not be covered by this IA Certificate and this IA Certificate shall undergo a renewal process. Renewal of this IA certificate is the responsibility of the IA Certificate Holder. The IA Certificate Holder must provide and maintain records to the end-user, of date of sale for traceability purposes.*

Certificate Number:	**S-XPL/15.1334 U** Issue Number: **3**
Equipment:	**Heating cables**
Model / Type:	**ELSR-N-...**
IA Certificate Holder:	**eltherm production GmbH**
IA Certificate Holder Location:	**Ernst-Heinkel-Str. 6-10, 57299 Burbach, Germany**
Manufacturer:	**eltherm production GmbH**
Manufacturer Location:	**Ernst-Heinkel-Str. 6-10, 57299 Burbach, Germany**
Serial No:	All serial numbers, imported between issued- and validity date and all serial numbers covered by either valid QAN or QAR.

Identified by Inspection Authority Number
S-XPL/15.1334 U

And as described in the Explolabs file number **XPL/16770/15.1334 Issue 3** is hereby certified "Explosion Protected (Refer to clause 1, for Ex Rating)", having been examined and inspected in accordance with the relevant requirements of the South African National Standards.

SANS 60079-0: 2019 Ed 6 **IEC 60079-0: 2017 Ed 7**	Explosive atmospheres Part 0: Equipment — General requirements
IEC 60079-30-1: 2015 Ed 1	Explosive atmospheres – Part 30-1: Electrical resistance trace heating – General and testing requirements

Risk of ignition provided:

Protection afforded	Equipment Protection Level (EPL) Group	Performance of protection	Conditions of operation	T class or Max Surface Temp (°C)
High	Gb Group II	Suitable for normal operation and frequently occurring disturbances or equipment where faults are normally taken into account	Equipment remains functioning in zones 1 and 2	N/A
High	Db Group III		Equipment remains functioning in zones 21 and 22	N/A

This report supersedes all previous documents bearing the reference no XPL/16770/15.1334 Issue 2.

1. GENERAL

The marking of the Heating cables shall include the following:
Ex IIC Gb
Ex IIIC Db

Self regulating heating cable of various rating classes as component for the production of trace heating systems.

Rated voltage:	230 /277 V
Min. bending radius:	25 mm
Type	Power (W/m at 10°C)
ELSR-N...-2...	10/20/30/40
Max service temperature:	-60°C to +65°C (operated)
	-60°C to +80°C (not-operated)
Max surface temperature:	80°C (T6)

Based on the following documentation: IECEx EPS 18.0064U Issue No: 0

2. INSTALLATION INSTRUCTIONS

It is the IA Certificate Holder's responsibility to supply OEM installation instructions with each unit offered for sale as required by IEC/SANS 60079-0, clause 30.

The equipment shall be installed, operated, and maintained in accordance with the manufacturer's instructions and the applicable South African standards and regulations.

3. SCHEDULE OF LIMITATIONS *(denoted by "U" after certificate number)*

The connection method, the temperature class, and the requirements made on the qualification of the staff putting the regulations into practice, have to be defined in the certification of final installation system.

The manufacturer´s instructions must be followed.

4. CONDITIONS OF CERTIFICATION

This approval is granted based on the submitted documentation.

Any modifications or alterations to the equipment will invalidate this IA Certificate.

The Certificate Holder is responsible for maintaining accurate records of the equipment and this IA Certificate.

All production units must be covered by either a QAN (Quality Assurance Notification) or QAR (Quality Assurance Report).

Renewal: This IA certificate may be renewed under a valid Quality Assurance Notification (QAN) or Quality Assurance Report (QAR). Imported apparatus not sold by the IA certificate expiry date must undergo this renewal process. This condition remains the responsibility of the IA Certificate Holder. Renewal of this IA certificate is the responsibility of the IA Certificate Holder.

Renewal involves a document review, including:

- Verification of the latest ATEX/IECEx certificate.
- Confirmation of a valid QAN/QAR.

Certificate holders are responsible for submitting these documents.

5. MARKING

The equipment shall bear the manufacturer's original marking plate containing all relevant Ex-certification details (applicable under the ATEX Directive). The following (or similar) information shall be clearly and permanently marked on all units:

IA Certificate Holder : eltherm production GmbH
Ex Rating : Ex IIC Gb
Ex IIIC Db
IA Certificate No : S-XPL/15.1334 U

This certification indicates compliance with R10.1 of the Mines Health and Safety Act and/or EMR 9(2) of the Occupational Health and Safety Act, provided that the apparatus is used as relevant in accordance with:

i) SANS 10086 and IEC/SANS 61241-14 requirements as applicable;
ii) Any conditions mentioned in the above report;
iii) Any relevant requirements and codes of practice enforced in terms of the Mine Health and Safety Act or Occupational Health and Safety Act; and
iv) Any restrictions and conditions enforced by the Chief Inspector of Mines or the Principal Inspector or the Chief Inspector: Occupational Health and Safety.
v) A revision certificate replaces all previous versions of the certificate.
vi) * - Only covers equipment Imported between the “Issued” and “Expire” dates.
vii) If and when your *QAN (Quality Assurance Notification) or QAR (Quality Assurance Report)* Certificate for your equipment manufacturer expires during the valid period of the IA Certification (issued for your equipment) and a new certificate is not submitted, the existing IA Certification will then be cancelled. It is thus the Certificate Holder’s responsibility to always submit the updated and valid QAN/QAR certificate(s) to Explolabs (Pty) Ltd

Reviewed by:

CC Lourens
Technical Specialist
EXPLOLABS EXPLOSION PREVENTION SERVICES

This report/certificate shall not be reproduced except in full without the written approval of the company Explolabs (Pty) Ltd shall not be liable for any losses or damages sustained on account of any failure or omission to properly perform our duties in terms of any contract undertaken by us. This disclaimer is immutable and automatically incorporated in any contract undertaken by us; notwithstanding anything to the contrary, save for the express written waiver of our managing director. By marking the equipment in accordance with the documentation/standard, the manufacturer attests on his own responsibility that the equipment has been constructed in accordance with the applicable requirements of the relevant standards and that the routine verifications and tests have been successfully completed and that the product complies with the documentation and standard(s). The contents of electronic reports/certificates cannot be guaranteed. Original certification documents will be kept on file at Explolabs (Pty) Ltd