IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres
for rules and details of the IECEx Scheme visit www.iecex.com
Ex COMPONENT CERTIFICATE

Certificate No.: **IECEx BAS 15.0105U**

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Certificate history:

Status: **Current**

Issue No: 8

Issue 7 (2024-08-30)
Issue 6 (2024-06-04)
Issue 5 (2022-07-18)
Issue 4 (2020-07-06)
Issue 3 (2019-02-11)
Issue 2 (2018-01-15)
Issue 1 (2017-06-05)
Issue 0 (2016-01-14)

Date of Issue: 2025-11-19

Applicant: **Chemelex Belgium NV**
Research Park
Haasrode - Zone 2
Romeinse straat 14
Leuven B-3001
Belgium

Ex Component: Type XPI Trace Heating Cable

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Electrical Resistance - Trace Heating**

Marking: **Ex 60079-30-1 IIC Gb**
Ex 60079-30-1 IIIC Db
T_{min} -*°C (*see Schedule)

Approved for issue on behalf of the IECEx Certification Body: **D Brearley**

Position: **Lead Certification Engineer**

Signature: (for printed version)

Date: (for printed version) 19/11/2025

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

SGS UK Limited
Rockhead Business Park
Staden Lane
Buxton, Derbyshire SK17 9RZ
United Kingdom

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Manufacturer: **Chemelex Belgium NV**
Research Park
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Romeinse straat 14
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Manufacturing locations: **Chemelex Belgium NV**
Research Park
Haasrode - Zone 2
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This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The component and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC/IEEE 60079-30-1:2015 Edition:1.0	Explosive atmospheres - Part 30-1: Electrical resistance trace heating - General and testing requirements

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the component listed has successfully met the examination and test requirements as recorded in:

Test Reports:

GB/BAS/ExTR15.0244/00
GB/BAS/ExTR17.0129/00
GB/BAS/ExTR17.0374/00
GB/BAS/ExTR18.0124/00
GB/BAS/ExTR20.0065/00
GB/BAS/ExTR21.0019/00
GB/SGS/ExTR24.0068/00
GB/SGS/ExTR24.0120/00

Quality Assessment Report:

GB/BAS/QAR07.0053/11

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Ex Component(s) covered by this certificate is described below:

The Type XPI Trace Heating Cable is typically used for heating applications such as freeze protection and temperature maintenance of tanks, vessels, pipes, etc in potentially explosive atmospheres or in unclassified areas.

The XPI and XPI-S Cables are rated up to 450V phase to neutral or 750V phase to phase. The XPI and XPI-S Cable resistance value ranges between 0.8 and 80000 Ω/km at 20°C.

The XPI-F Cable is rated up to 300V phase to neutral or 500V phase to phase. The XPI-F Cable resistance value ranges between 1.8 and 200 Ω/km at 20°C.

The XPI, XPI-S and XPI-F Cables consist of a heating conductor core, a primary insulation, a protective metallic braid and a non-metallic outer jacket.

The maximum continuous withstand temperature is +260°C for the XPI and XPI-S Cables and +90°C for XPI-F Cable. The minimum ambient temperature for installation is -70°C for the XPI and XPI-S Cables and -60°C for the XPI-F Cable.

The marking on the cable includes the variable information as follows:

<Brand>
<Product Description>
<Resistance at +20°C>
<Batch Number>
<Year of Manufacture>

The optional -S indicates suitability of the cable for areas with normal risk of mechanical damage whereas the plain XPI cable, or the XPI-F cable, indicates the suitability of the cable for areas with low risk of mechanical damage. The four digit suffix indicates the resistance of the heating conductor in Ohms per km at 20°C.

SCHEDULE OF LIMITATIONS:

1. The maximum continuous withstand temperature for the XPI- and XPI-S- cable is +260°C and for the XPI-F- cable +90°C.
2. The maximum supply voltage for the XPI cable is shown in the component description.
3. The minimum installation temperature is -70°C for the XPI- and XPI-S- cable and -60°C for the XPI-F- cable.
4. The minimum cable spacing must not be less than 20mm.
5. The minimum bend radius is 2.5x the cable diameter for cables less than or equal to 6mm in diameter or the minimum bend radius is 6x the cable diameter for cables greater than 6mm in diameter.
6. The XPI- or XPI-F- cable is for use in areas with low risk of mechanical damage, therefore appropriate installation consideration shall be taken. The XPI-S- is for use in areas with normal risk of mechanical damage.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Variation 8.1

The issue of this certificate permits existing information (for example on Certificate Schedule Drawings or label marking) to be updated to show the new name, no other changes may be made to the certified design. A technical review has not been undertaken, and the standards remain at the editions listed previously.

Report Number: None Project Number: 25/0112