1 # EU - TYPE EXAMINATION CERTIFICATE

2 **Component Intended for use on/in an Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU**

3 EU - Type Examination Certificate Number: **Baseefa15ATEX0158U – Issue 8**

3.1 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

4 Product: **Type XPI Trace Heating Cable**

5 Manufacturer: **Chemelex Belgium NV**

6 Address: **Romeinse straat 14, 3001 Leuven, Belgium**

7 This re-issued certificate extends EC Type Examination Certificate No. **Baseefa15ATEX0158U** to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

8 SGS Fimko Oy, Notified Body number 0598, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that the product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

8.1 The original certificate was issued by SGS Baseefa Ltd (UK Notified Body 1180). It, and any supplements previously issued by SGS Baseefa Ltd have been transferred to the supervision of SGS Fimko Oy (EU Notified Body 0598). The original certificate number is retained.

The examination and test results are recorded in confidential Report No. **See Certificate History.**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 **EN 60079-30-1:2017**

except in respect of those requirements listed at item 18 of the Schedule.
This certificate issue is for the sole purpose of recording a change to the certificate holder's name/address. A technical review has not been undertaken and the standards remain at the editions listed previously.

10 The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

11 This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following:

Ex II 2 GD Ex 60079-30-1 IIC Gb Ex 60079-30-1 IIIC Db Tmin -*°C (*see schedule)

SGS Baseefa Customer Reference No. **5034** Project File No. **25/0112**

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S003 (EN ISO/IEC 17065)

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13 # Schedule

14 ## Certificate Number Baseefa15ATEX0158U – Issue 8

15 Description of Product

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 8000 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.

16 Report Number

See Certificate History.

17 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.

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
1.2.7	LVD type requirements
1.2.8	Overloading of equipment (protection relays, etc.)

Clause	Subject
1.4.1	External effects
1.4.2	Aggressive substances, etc.

19 Drawings and Documents

New drawings submitted for this issue of certificate:

None.

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
K-20170617-15*		F	20/06/2024	XPI-(S) Typical Construction Drawing
K-20170617-16	1-2	E	15/07/2024	XPI and XPI-S Resistance Values
K-21070420-02*	1 of 1	E	22/01/2024	XPI-F Construction Drawing
K-20170420-01	1 of 1	C	2/10/2021	XPI-F Resistance Values

*These drawings are common to BAS21UKEX0522U

All drawings are common to IECEx BAS 15.0105U.

20 Certificate History

Certificate No.	Date	Comments
Baseefa15ATEX0158U	13 January 2016	The release of the prime certificate. The associated test and assessment is documented in SGS Baseefa certification report GB/BAS/ExTR15.0244/00.
Baseefa15ATEX0158U Issue 1	05 June 2017	To introduce the alternative variant Type XPI-F Trace Heating Cable. SGS Baseefa certification report GB/BAS/ExTR17.0129/00 refers.
Baseefa15ATEX0158U Issue 2	15 January 2018	To replace the conductor material used for the XPI-4000 and XPI-S-4000 variants of the XPI Trace Heating Cable. SGS Baseefa certification report GB/BAS/ExTR17.0374/00 refers.
Baseefa15ATEX0158U Issue 3	11 February 2019	To confirm the certificate is now held in the name of nVent Thermal Belgium NV. To update the product marking labels to show the name of nVent Thermal Belgium NV. SGS Baseefa certification report GB/BAS/ExTR18.0124/00 refers.
Baseefa15ATEX0158U Issue 4	6 July 2020	To update the Type XPI Trace Heating Cable to the requirements of EN IEC 60079-0: 2018 and EN 60079-30-1: 2017, SGS Baseefa certification report GB/BAS/ExTR20.0065/00 refers.
Baseefa15ATEX0158U Issue 5	18 July 2022	To introduce optional alternative non-metallic materials for use as the primary insulation and inner insulation on the XPI-F heating cables and for use as the inner insulation and outer jacket on the XPI and XPI-S heating cables. SGS Baseefa certification report GB/BAS/ExTR21.0019/00 refers.
Baseefa15ATEX0158U Issue 6	4 June 2024	To amend the nameplates to accommodate UKEX certificate numbers. Certification report GB/SGS/ExTR24.0068/00 refers.
Baseefa15ATEX0158U Issue 7	30 August 2024	To introduce an alternative inner insulation material for the XPI and XPI-S heating cables. Certification report GB/SGS/ExTR24.0120/00 refers.

Certificate No.	Date	Comments
Baseefa15ATEX0158U Issue 8	19 November 2025	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
For drawings applicable to each issue, see original of that issue.		