1 # UK-TYPE EXAMINATION CERTIFICATE

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

3	UK-Type Examination Certificate Number:	**BAS21UKEX0652X Issue 0**
4	Product:	**Trace Heating System Type PI/*-*-*-*-***
5	Manufacturer:	**Chemelex Belgium NV**
6	Address:	**Research Park Haasrode - Zone 2, Romeinse straat 14, B-3001 Leuven, Belgium**

7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 SGS United Kingdom Ltd. (Incorporating Baseefa Ltd.), Approved Body number 1180, in accordance with Regulations 42 and 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this product 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 Schedule 1 of the Regulations.

The examination and test results are recorded in a confidential report identified in the revision table at item 20.

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

EN IEC 60079-0:2018 EN IEC 60079-7:2015+A1:2018 EN 60079-31:2014 EN 60079-30-1:2017

except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11 This UK-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations 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:

II 2 G Ex eb 60079-30-1 IIC T2…T6 Gb

II 2 D Ex tb 60079-30-1 IIIC T260°C…T90°C Db

SGS Customer Reference No. **5034** Project File No. **21/0319**

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UKAS PRODUCT CERTIFICATION
0191

D BREARLEY
LEAD CERTIFICATION ENGINEER

13 # Schedule

14 ## Certificate Number BAS21UKEX0652X – Issue 0

15 Description of Product

XPI polymer insulated (PI) series resistance trace heating cables of protection type increased safety “eb” are suitable for installation in hazardous area Zone 1. Typical use is in the freeze protection and temperature maintenance of pipelines, vessels, tanks, etc. especially when long circuit lengths are required.

Polymer insulated (PI) trace heating cables can easily be terminated in the field using the pre-certified XPI components. The system includes a XPI, XPI-S, or XPI-F polymer insulated (PI) resistance trace heating cable and the splice and connection kit for XPI heating cables (Type CS-150-UNI-PI or CS-150-xx-PI).

Technical and electrical information for trace heating cables

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.

Component	Minimum ambient temperature for installation	Maximum continuous withstand temperature	Resistance at 20°C
XPI	-70°C	+260°C	0.8 – 8000 Ω/km
XPI-S	-70°C	+260°C	0.8 – 8000 Ω/km
XPI-F	-60°C	+90°C	1.8 – 200 Ω/km
CS-150-UNI-PI	-50°C	+180°C	-
CS-150-xx-PI	-50°C	+200°C	-

Nomenclature

The nomenclature of the system results from the nomenclature of the resistance trace heating cables. The marking includes the variable information as follows:

Type PI	/	*	-	*	-	*	-	*	-	*
a		b		c		d		e		f

a Trace Heating System Type PI

b Brand

c Product Description

d Resistance at +20°C

e Batch Number

f Year of Manufacture

List of trace heating system Type PI component certificates

Product Name	ATEX & IECEx Approval Number
XPI	Baseefa15ATEX0158U IECEx BAS 15.0105U
XPI-S	Baseefa15ATEX0158U IECEx BAS 15.0105U
XPI-F	Baseefa15ATEX0158U IECEx BAS 15.0105U
CS-150-UNI-PI	PTB 09 ATEX 1067U IECEx PTB 09.0042U
CS-150-xx-PI	PTB 08 ATEX 1101U IECEx PTB 08.0050U

16 Report Number

See Item 20 – Certificate History

17 Specific Conditions of Use

1. The XPI- and XPI-F- cable is for use in areas with low risk of mechanical damage (4 Joule), therefore appropriate installation consideration shall be taken. The XPI-S - cable is for use in areas with normal risk of mechanical damage (7 Joule).

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
13	LVD type requirements
14	Overloading of equipment (protection relays, etc.)
21 (1)	External effects
21 (2)	Aggressive substances, etc.

19 Drawings and Documents

Other than for Issue 0, Drawings and Documents that are introduced at a new edition of the certificate are marked with an asterisk symbol:

Number	Sheet	Issue	Date	Description
XPI Electrical Heating System Description	1-11	E	11.09.2017	XPI Electrical Heating System Description
K-20081204	1-4	J	19/01/2026	PI-LABEL-EX/NH

20 Certificate History

Certificate No.	Date	Comments
BAS21UKEX0652X Issue 0	12 May 2026	**Prime Certificate** **Report Number: 21(C)0319-06** **Project Number: 21/0319** **Original issue of the certificate**
For drawings applicable to each issue, see original of that issue.		