EU - TYPE EXAMINATION CERTIFICATE

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:	**SGS21ATEX0082U**
4	Product:	**Self-Regulating Heating Cable Type *TT*-2-BOT-Therm Trace ***
5	This certificate is held by:	**HTS Global AG**
6	Address:	**Am Unisys Park 6, 65843 Sulzbach, Germany**

7 This product and any acceptable variation thereto is specified in the schedule 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 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 Annex II to the Directive.

The examination and test results are recorded in confidential Report No. **21(C)0270**

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.

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:

Ⓔx II 2 GD Ex 60079-30-1 IIC Gb
Ex 60079-30-1 IIIC Db

SGS Fimko Oy Customer Reference No. **8129** Project File No. **21/0270**

SGS Fimko Oy
Takomotie 8
FI-00380 Helsinki, Finland
Telephone +358 (0)9 696 361
e-mail sgs.fimko@sgs.com
web site www.sgs.fi
Business ID 0978538-5 Member of the SGS Group (SGA SA)

Tuomas Hänninen
SGS Fimko Oy

13 # Schedule

14 ## Certificate Number SGS21ATEX0082U

15 Description of Product

The *TT*-2-BOT-Therm Trace * Self-Regulating Heating Cable is used for electrical freeze protection and temperature maintenance in hazardous locations.

The *TT*-2-BOT-Therm Trace * Self-Regulating Heating Cable has a rated supply voltage of 200-277 V a.c. 50/60 Hz, and a range of power outputs of 20, 30, 45 and 60 W/m at 10°C.

The *TT*-2-BOT-Therm Trace * Self-Regulating Heating Cable consists of a heating conductive core, an electrical insulation, an inner jacket, a copper braid and an outer jacket.

The *TT*-2-BOT-Therm Trace * Self-Regulating Heating Cable has three model names which relate to the maximum continuous operating temperature of the cable, as shown in the table below.

Type	Max. continuous operating temperature	Max. intermittent temperature (power off)
*TTP-2-BOT-Therm Trace Plus	110°C	135°C
*TTS-2-BOT-Therm Trace Super	120°C	200°C
*TTSe-2-BOT-Therm Trace Super Extra	150°C	200°C

Type definition:

(a)TT(b)-2-BOT-Therm Trace (c)

(a) = 20, 30, 45, 60

(b) = P, S, Se

(c) = Plus, Super, Super Extra

20: Power output 20W/m at 10°C

30: Power output 30W/m at 10°C

45: Power output 45W/m at 10°C

60: Power output 60W/m at 10°C

16 Report Number

SGS Baseefa Certification Report 21(C)0270.

17 Schedule of Limitations

1. The maximum withstand temperature for the *TT*-2-BOT-Therm Trace * Self-Regulating Heating Cable is +200°C.
2. The maximum supply voltage is shown in the component description.
3. The minimum installation temperature is -40°C.
4. The minimum bend radius is 40mm at -40°C.

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.)
1.4.1	External effects
1.4.2	Aggressive substances, etc.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
E431250-ENDMTTSE	1 of 1	1	2021.04.22	TTSe Surface Marking
E431350-ENDMTTP	1 of 1	1	2021.04.22	TTP Surface Marking
E431350-ENDMTTS	1 of 1	1	2021.04.22	TTS Surface Marking

For all other drawings please see Baseefa Certification Report 21(C)0270.