

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: **BAS21UKEX0060X**

4 Product: **Insulated Adaptors**

5 Manufacturer: **Hawke International**

6 Address: **A Division of Hubbell Limited, A Member of the Hubbell Group of Companies,
Oxford Street West, Ashton-under-Lyne, Lancashire, OL7 0NA**

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

8 SGS Baseefa, Approved Body number 1180, in accordance with Regulation 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 confidential Report No. **21(C)0033**

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

EN 60079-0:2012: +A11: 2013 EN 60079-1: 2014 EN IEC 60079-7: 2015: +A1: 2018 EN 60079-31: 2014

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 2G Ex db IIC Gb

⊕ II 2G Ex eb IIC Gb

⊕ II 2D Ex tb IIIC Db

See schedule for Mining marking

SGS Baseefa Customer Reference No. **0500**

Project File No. **21/0033**

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R S SINCLAIR
TECHNICAL MANAGER
On behalf of SGS Baseefa Limited

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Schedule

14

Certificate Number BAS21UKEX0060X

15 Description of Product

A range of Insulated Adaptors consisting of three separate (two metallic and one polymeric) threaded parts which are screwed together to form an adaptor assembly. The interface between the three parts forms two threaded flame paths and the three parts of the assembly are permanently bonded together. The metallic parts may be produced in steel, stainless steel, brass or aluminium alloy. The polymeric part may be produced in one of two polymeric materials (A or B). The adaptors range in size from M20 to M75 (male and female) with NPT, ET, PG, NPSM – BSPP and BSPT_r equivalent sizes.

Type Designation	Temperature Range		Equipment Group	
	Polymer A	Polymer B	Group I	Group II
478	-55°C to +90°C	-55°C to +95°C	Yes	Yes
478LT	-60°C to +90°C	-60°C to +95°C	No	Yes

The marking is as follows:

- ⊕ II 2G Ex db IIC Gb
- ⊕ II 2G Ex eb IIC Gb
- ⊕ II 2D Ex tb III C Db

- ⊕ I M2 Ex db I Mb
- ⊕ I M2 Ex eb I Mb

Note: Aluminium is not permitted for Group I mining.

16 Report Number

21(C)0033

17 Specific Conditions of Use

1. When the Insulated Adaptors are used for Flameproof, Increased Safety or Dust Protection, the entry of the enclosure and the female threads of the Insulated Adaptor are to be suitably sealed (in accordance with EN 60079-14) to maintain the Ingress Protection rating of the associated enclosure.
2. When the Insulated Adaptors are used for Increased Safety or Dust Protection in a plain hole, in hole in the enclosure must be no greater than 0.7mm bigger than the male thread and the Insulated Adaptor must be secured with a locknut, the female threads of the Adaptor or Reducer are to be suitably sealed (in accordance with EN 60079-14) to maintain the Ingress Protection rating of the associated enclosure.
3. The Insulated Adaptors, when used in flameproof applications, must not be closed with a flameproof stopping plug.
4. The size A, B and C Insulated adaptor is limited to use in Group I application to low impact installations.
5. The aluminium variant of type 478 adaptor is to be marked for Group II only.

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
1.4.1	External effects
1.4.2	Aggressive substances

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
478	1 to 3	E	12/05/21	Insulated Adaptors
478LT	1 to 3	D	12/05/21	Insulated Adaptors
Baseefa12ATEX0207X IECEX BAS 12.0111X				