

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: **BAS21UKEX0058X**

4 Product: **487 Stopping Plug**

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

13 **Schedule**

14 **Certificate Number BAS21UKEX0058X**

15 **Description of Product**

The Type 487 Range of Stopping Plugs is manufactured in brass, steel, stainless steel or aluminium and is designed for the closure of unused entries in flameproof, increased safety or dust protected enclosures. The range covers sizes with metric threads from M16 to M130, other parallel thread forms of equivalent sizes, for example electrical conduit (ET), Pg, BSPP are provided.

Each plug has a threaded portion, 15mm to 20mm long as a minimum, depending on the thread type and size, and a larger circular head with a tapered shoulder. The stopping plug is manufactured with a broached hexagon hole in the larger diameter which is intended for tightening purposes. The underside of the shouldered head may be machined with a groove into which a nitrile or silicone rubber o-ring may be fitted to provide sealing to an associated enclosure.

The stopping plug, when provided with a o-ring and fitted in to suitable equipment, is capable of meeting the requirements of IP66/IP67

The marking is as follows:

⊕ II 2G Ex db IIC Gb

⊕ II 2G Ex eb IIC Gb

⊕ II 2D Ex tb IIIC Db

⊕ I M2 Ex db I Mb

⊕ I M2 Ex eb I Mb

NOTE: Aluminium is not permitted for Group I Mining applications.

16 **Report Number**

21(C)0033

17 **Specific Conditions of Use**

1. The maximum operation temperature range of the stopping plug when fitted with a nitrile O-ring is -60°C to +80°C.
2. The maximum operating temperature range of the stopping plug when fitted with a silicone O-ring is -60°C to +160°C.
3. The maximum operating temperature range of the stopping plug when fitted with no O ring is -60°C to +200°C.
4. When the stopping plug is fitted in plain holes in increased safety or dust protected enclosures the sealing face of the enclosure is to be smooth and the hole no larger than 0.7mm above the major diameter of the male thread on the stopping plug. The stopping plug is to be secured with a locknut and optional locking washer.
5. When fitted in threaded holes the sealing face of the enclosure is to be smooth, the threaded hole perpendicular to the wall of the enclosure and the thread medium fit.
6. When the stopping plugs are used for increased safety or dust protection and no O ring is fitted the user is to ensure that the enclosure and stopping plug interface is suitably sealed, in accordance with EN 60079-14, to maintain the ingress protection rating of the associated enclosure and protection concept.
7. For Group I mining applications: Aluminium is not permitted.

For Group II applications: Anti-seize spray shall be applied to the stopping plug manufactured from aluminium.

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
487	1 to 2	H	08/06/21	Exe/Exd Group I & Group II Stopping Plug
Baseefa11ATEX0149X IECEX BAS 11.0071X				