



1 **EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

3 EC - Type Examination Certificate Number: **Baseefa06ATEX0084**

4 Equipment or Protective System: **Wolf Mini/Micro Torch Range**

5 Manufacturer: **Wolf Safety Lamp Company Ltd**

6 Address: **Saxon Road Works, Sheffield, S8 0YA**

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Baseefa (2001) Ltd., Notified Body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems 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. **05(C)0188**

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


EN 60079-0:2004 EN 50020:2002

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 equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

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

12 The marking of the equipment or protective system shall include the following :

 **See Schedule**

This certificate may only be reproduced in its entirety, without any change, schedule included.

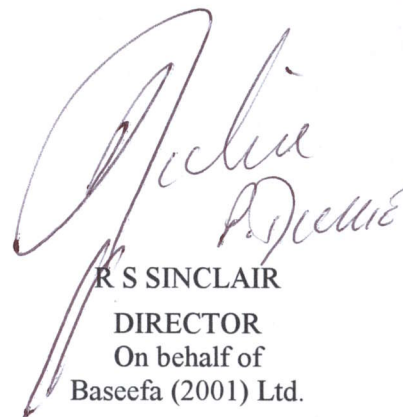
Baseefa Customer Reference No. 1112

Project File No. 05/0188

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

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R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.

Re-issued 22 August 2006



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Schedule

14

Certificate Number Baseefa06ATEX0084

15 Description of Equipment or Protective System

The Wolf Mini / Micro Torch Range comprises 4 models using various primary batteries with either a Xenon bulb or LED(s) housed in a straight thermoplastic body which is incapable of storing a dangerous electrostatic charge. The lens end cap retains a transparent plastic lens. The straight body arrangement incorporates a thermoplastic pocket clip and an on/off switch.

The enclosure is sealed dust tight and provides an ingress protection level of IP67.

There are four versions which are coded as follows: the second numeral X may vary to denote sub-versions:

M-1X: Ex II 1G Ex ia IIC T5 ($T_{\text{amb}} = 50^{\circ}\text{C}$) IP67

4 x LR44 cells

Single 5mm LED

Permitted cells: Ansmann, Duracell, Energizer, GP, Hi Watt, Maxell, Renata, Varta

M-2X: Ex II 2G Ex ib IIC T4 IP67

2 x LR03 (AAA) cells

Xenon bulb

Permitted cells: Duracell Procell/Plus/Ultra M3, Energizer Industrial/Ultra+/Ultimate,

GP Alkaline/Super Alkaline, Panasonic Powermax/Ultra, Philips Powerlife, Varta High Energy

M-4X: Ex II 1G Ex ia IIC T4 ($T_{\text{amb}} = 50^{\circ}\text{C}$) IP67

3 x LR1 (N) cells

3 x 5mm LED

Permitted cells: Duracell, Energizer, GP, Maxell, Panasonic, Varta

M-6X: Ex II 1G Ex ia IIC T4 ($T_{\text{amb}} = 50^{\circ}\text{C}$) IP67

3 x LR1 (N) cells

1 watt LED

Permitted cells: Duracell, Energizer, GP, Maxell, Panasonic, Varta

16 Report Number

05(C)0188

17 Special Conditions for Safe Use

None

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
M-710	1	1	24/04/06	Wolf M-10 Torch
M-720	1	1	24/04/06	Wolf M-20 Torch
M-740	1	1	24/04/06	Wolf M-40 Torch
M-760	1	1	24/04/06	Wolf M-60 Torch

These drawings are common to and held with IECEx BAS 06.0023.



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

3 Supplementary EC - Type Examination Certificate Number: **Baseefa06ATEX0084/1**

4 Equipment or Protective System: **Wolf Mini/Micro Torch Range**

5 Manufacturer: **Wolf Safety Lamp Company Ltd**

6 Address: **Saxon Road Works, Sheffield, S8 0YA**

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa06ATEX0084 to apply to equipment or protective systems 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.

This supplementary certificate shall be held with the original certificate.

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **1112**

Project File No. **07/0446**

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

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R S SINCLAIR
DIRECTOR
On behalf of
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13

Schedule

14

Certificate Number Baseefa06ATEX0084/1

15 **Description of the variation to the Equipment or Protective System**

Variation 1.1

To permit the Wolf Mini/Micro Torch range to be marked for Group I applications.

Variation 1.2

To confirm the assessment of the Wolf Mini/Micro Torch range against the standards EN 61241-0:2006 and EN 61241-1:2004 for use in the presence of combustible dust.

Variation 1.3

To permit changes to the LED assembly in the M-6X range of torches.

Variation 1.4

To permit minor mechanical changes.

The revised markings for the Wolf Mini/Micro Torch range are:-

M-1X Models:

⊕ I M1 / II 1GD T80°C
Ex ia I / IIC T5 (T_a=+50°C) tD A20 IP67 T80°C

M-2X Models:

⊕ I M2 / II 2GD T80°C
Ex ib I / IIC T4 tD A21 IP67 T80°C

M-4X Models:

⊕ I M1 / II 1GD T80°C
Ex ia I / IIC T4 (T_a=+50°C) tD A20 IP67 T80°C

M-6X Models:

⊕ I M1 / II 1GD T80°C
Ex ia I / IIC T4 (T_a=+50°C) tD A20 IP67 T80°C

16 **Report Number**

07(C)0446

17 **Special Conditions for Safe Use**

None

18 **Essential Health and Safety Requirements**

Compliance with the Essential Health and Safety Requirements is not affected by this variation.



19 Drawings and Documents

Number	Sheet	Issue	Date	Description
M-710	1	2	03/09/07	Wolf M-10 Torch
M-720	1	2	03/09/07	Wolf M-20 Torch
M-740	1	2	03/09/07	Wolf M-40 Torch
M-760	1	2	03/09/07	Wolf M-60 Torch

These drawings are held with IECEX BAS06.0023 Issue 1