



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx BAS 06.0089 issue No.:2

Status: **Current**

Date of Issue: 2009-11-27

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**Certificate history:**

Issue No. 2 (2009-11-27)  
Issue No. 1 (2008-6-16)  
Issue No. 0 (2007-4-25)

Applicant: **Wolf Safety Lamp Company Limited**  
Saxon Road Works  
Sheffield  
S8 0YA  
United Kingdom

Electrical Apparatus: **TR-40 / TR-45 LED Torch**  
Optional accessory:

Type of Protection: **intrinsic safety, dust protected**

Marking: **IECEX BAS 06.0089**  
**Ex ib I/IIC T3/T4 tD A21 IP67 T85°C (Model TR40)**  
**Ex ia I/IIC T3/T4 IP67 (Model TR45)**

Approved for issue on behalf of the IECEx  
Certification Body:

R S Sinclair

PP DIBREARLEY

Position:

Managing Director

Signature:  
(for printed version)

RS Sinclair

Date:

27/11/09

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**Baseefa**  
Rockhead Business Park  
Staden Lane  
Buxton  
Derbyshire  
SK17 9RZ  
United Kingdom





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Manufacturer: **Wolf Safety Lamp Company Limited**  
Saxon Road Works  
Sheffield  
S8 0YA  
United Kingdom

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

<b>IEC 60079-0 : 2004</b> Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-11 : 2006</b> Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "I"
<b>IEC 61241-0 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
<b>IEC 61241-1 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

#### Test Report:

GB/BAS/ExTR06.0024/00  
GB/BAS/ExTR06.0147/00  
GB/BAS/ExTR07.0047/00  
GB/BAS/ExTR08.0123/00  
GB/BAS/ExTR09.0196/00

#### Quality Assessment Report:

GB/BAS/QAR06.0017/00



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The Wolf TR-40 and TR-45 LED Torches are designed to provide illumination using 4 AA primary cells and a single high power LED.

The TR-40 and TR-45 comprise 4 AA primary batteries inside a cylindrical thermoplastic enclosure, and a right angled head holding a single high intensity LED and reflector assembly. Some variants also include a low battery power indicator.

The TR40 model is certified for use in combustible dust environments.

When the torches are used with batteries of type zinc-chloride, zinc-carbon, Duracell Plus, Duracell Procell, Energiser Ultra+ or Energiser Industrial, the Temperature Class is T4.

When using alkaline-manganese batteries of size LR6 or AA that are not specified above, the Temperature Class is T3

### CONDITIONS OF CERTIFICATION: NO



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

### Variation 2.1

To permit mechanical changes.

### Variation 2.2

To confirm that the current design of the TR40 & TR45 LED Torches meets the requirements of IEC 60079-0:2004 edition 4 and IEC 60079-11:2006 edition 5.

ExTR: GB/BAS/ExTR09.0196/00

File Reference: 08/0977