



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: **Baseefa07ATEX0091 Issue 2**

4 Equipment or Protective System: **TR-40 & TR-45**

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, 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. GB/BAS/ExTR09.0196

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

EN 60079-0:2006 EN 60079-11:2007 EN 61241-0:2006 EN 61241-1:2004

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 :

Ex (see schedule)

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

Baseefa Customer Reference No. **1112**

Project File No. **08/0977**

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

Baseefa

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Baseefa is a trading name of Baseefa Ltd

Registered in England No. 4305578. Registered address as above.

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PP DBNEATLEY

R S SINCLAIR

DIRECTOR
On behalf of
Baseefa



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Schedule

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Certificate Number Baseefa07ATEX0091 Issue 2

15 Description of Equipment or Protective System

The TR-40 and TR-45 LED Torches are hand held units 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 TR-40 is coded:- Ex 1 M2/II 2GD Ex ib I/IIC T3/T4 tD A21 IP67 T85°C

The TR-45 is coded:- Ex 1 M1/II 1G Ex ia I/IIC T3/T4 IP67

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

16 Report Number

GB/BAS/ExTR09.0196

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

New drawings submitted for this issue of certificate.

Number	Sheet	Issue	Date	Description
TP740	1	2	21/05/09	Wolf Primary Cell LED Torch

These drawings are held with IECEx BAS 06.0089 issue 2.

Current drawings also associated with this certificate.

Number	Sheet	Issue	Date	Description
TP-840	1	2	28/04/08	Primary Cell LED Torch - Cassette
TP-940	1	1	13/11/06	Primary Cell LED Torch – Cassette Circuit



20 Certificate History

Certificate No.	Date	Comments
Baseefa07ATEX0091	18 April 2007	The release of the prime certificate. The associated test and assessment is documented in Test Report 06(C)0643.
Baseefa07ATEX0091/1	12 June 2008	To permit minor mechanical changes not affecting the original assessment.
Baseefa07ATEX0091 Issue 2	23 November 2009	This issue incorporates previously issued primary and supplementary certificates into one certificate, permits minor mechanical changes and confirms that the current design meets the requirements of EN 60079-0:2006, EN 60079-11:2007, EN 61241-0:2006 and EN 61241-1:2004.
For drawings applicable to each issue, see original of that issue.		