

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: **BAS21UKEX0431X**
4 Product: **WOLF TORCH TS-2XX / TR-2XX**
5 Manufacturer: **Wolf Safety Lamp Co Ltd**
6 Address: **Saxon Road Works, Sheffield, S8 0YA**

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)0294/02**

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


EN IEC 60079-0:2018 EN IEC 60079-7:2015+A1:2018 EN 60079-11:2012 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:

 (see schedule)

SGS Baseefa Customer Reference No. **1112**

Project File No. **21/0284**

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R S SINCLAIR
TECHNICAL MANAGER
On behalf of SGS Baseefa Limited

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Schedule

14

Certificate Number BAS21UKEX0431X

15 Description of Product

The Wolf Torches TS-2XX & TR-2XX are portable lights with a moulded plastic case and lens ring, and a toughened glass or plastic lens. The lens and metallised plastic reflector are held in place by the lens ring which screws onto the torch body. Effective sealing is ensured by a seal fitted around the outer rim of the reflector.

The torch is available in two different body styles. The TS-2XX has a straight body where the lens and reflector must be removed in order to insert and remove the batteries. The TR-2XX has a right-angled body where the lens is at 90° orientation to the batteries. A removable end cap is screwed onto the base of the torch body to allow insertion and removal of batteries. A nitrile “O” ring located in a groove in the torch body provides an effective seal.

The impact resistant enclosure provides ingress protection equivalent to IP67. The switch slider mechanism causes a rotating pinion passing through the torch body to force two metal contacts together.

Power is provided by means of two R20, LR20, IEC 60086 primary cells. The correct orientation of the batteries is clearly marked on the torch body.

An optional low power indicator may be fitted, illuminating an LED when the battery voltage falls below a pre-determined threshold.

An optional LED module may be fitted instead of the filament bulb.

The following Group II markings may be present:-

Model Reference	Permitted Cell Types	Group II Markings
TS-2XX	R20 / LR20 (note**)	Ⓔ II 2G Ex eb ib IIB T4 Gb Ⓔ II 2D Ex tb IIIC T95°C Db -10°C ≤ Ta ≤ +40°C
TR-2XX		Ⓔ II 2G Ex eb ib IIB T4 Gb Ⓔ II 2D Ex tb IIIC T95°C Db -20°C ≤ Ta ≤ +40°C
TS-2XX	R20 / LR20 (note*)	Ⓔ II 2G Ex eb ib IIB T4 Gb Ⓔ II 2D Ex tb IIIC T95°C Db -10°C ≤ Ta ≤ +55°C
TR-2XX		Ⓔ II 2G Ex eb ib IIB T4 Gb Ⓔ II 2D Ex tb IIIC T95°C Db -20°C ≤ Ta ≤ +55°C
TS-2XX	R20 (note***)	Ⓔ II 2G Ex eb ib IIB T6 Gb Ⓔ II 2D Ex tb IIIC T65°C Db -10°C ≤ Ta ≤ +40°C
TR-2XX		Ⓔ II 2G Ex eb ib IIB T6 Gb Ⓔ II 2D Ex tb IIIC T65°C Db -20°C ≤ Ta ≤ +40°C

The following cells are permitted for gas and dust applications:-

LR20* - Duracell Ultra, Energizer Alkaline, Energizer Industrial, Eveready Gold.

LR20** - Varta Universal Alkaline, Varta Alkaline Value Pack, Varta Electric Power, Kodak Alkaline, Exide Alkaline, Cegassa Alkaline, Duracell Alkaline, Duracell Plus, Industrial by Duracell, HiTech Alkaline Professional, RS Alkaline, Sanyo Alkaline, Duracell Ultra, Energizer Alkaline, Energiser Industrial, Eveready Gold, Rayovac Maximum, Duracell Procell, Pifco Optimax.

R20*** - Philips Longlife, GP Greencell,

The following bulb and LED combinations may be used for the temperature classifications and maximum ambient temperatures indicated:-

Bulb / LED			Maximum Upper Ambient Temperature	T class	Torch Models
Type	Min Voltage	Max current			
xenon krypton vacuum	2.4	0.93	+55°C	T4	TS/TR-24X
	2.2	0.85			
LED module	n/a	n/a			
xenon krypton vacuum	2.4	0.93	+40°C	T4	TS/TR-24X
	2.2	0.85			
LED	n/a	n/a			
vacuum	2.4	0.5	+40°C	T6	TS/TR-26X

16 Report Number

21(C)0284/02

17 Specific Conditions of Use

- Only the cell types listed in the certificate schedule may be used.

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
21 (1)	External effects
21 (2)	Aggressive substances, etc.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
TP-721 *1	1	7	19/10/22	Wolf ATEX Torch - 2 Cell - Straight
TP-723 *1	1	7	19/10/22	Wolf ATEX Torch - 2 Cell - Right Angle

For all other applicable drawings, see BAS02ATEX2220X Issue 7.