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# EU-TYPE EXAMINATION CERTIFICATE

[2] Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

[3] EU-Type Examination Certificate Number: **DNV 23 ATEX 92608X** **Issue 0**

[4] Product: **Explosion-proof torch**

[5] Manufacturer: **Shenzhen Goaltek Electric Co., Ltd.**

[6] Address: **1901, Building 1, COFCO Yunjing Plaza,  
Intersection of Songbai Road and Chuangwei  
Road, Gongming Street, Guangming New  
District, Shenzhen, China**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] DNV Product Assurance AS, notified body number 2460, in accordance with Article 17 and Article 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 Annex II to the Directive.

The examination and test results are recorded in confidential reports listed in item 16.


[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: **EN IEC 60079-0:2018, EN 60079-11:2012 and EN 50303:2000.**

Where additional criteria beyond those given here have been used, they are listed at item 18 in 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" listed under item 17 of this certificate.

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive 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:

 **Ex code, see schedule**



Date of issue:  
2023-06-23



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For DNV Product Assurance AS  
The Certificate has been digitally signed.  
See [www.dnv.com/digitalsignatures](http://www.dnv.com/digitalsignatures) for info

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**Schedule**

 [14] **EU-Type Examination Certificate No.:**

DNV 23 ATEX 92608X

Issue 0

 [15] **Description of Product**

The ExMP21N Ex torch consists of a plastic enclosure in which one LED light source, two primary cells, several circuit boards are installed inside.

The ExMP31N Ex torch consists of a plastic enclosure in which one LED light source, three primary cells, several circuit boards are installed inside.

The ExMP32N Ex torch consists of head and body, the head can rotate with some angle around the shaft/hole in the body. The LED light sources are installed inside the head and three primary cells, several circuit boards are installed inside the body.

The ExMP21R Ex torch consists of a plastic enclosure in which one LED light source, a battery pack (one Lithium Ion secondary cell), several circuit boards are installed inside.

The ExMP31R Ex torch consists of a plastic enclosure in which one LED light source, a battery pack (one Lithium Ion secondary cell), several circuit boards are installed inside.

The ExMP32R Ex torch consists of head and body, the head can rotate with some angle around the shaft/hole in the body. The LED light sources are installed inside the head and a battery pack (two Lithium Ion secondary cells connected in parallel), several circuit boards are installed inside the body.

For products ExMP21R, ExMP31R and ExMP32R, the product can be charged on the charging base (charger) separately or through an integrated charging system,

**Type designation**

Ex	M	P	□	□
<b>Type of cell:</b> N: Primary cell R: Secondary cell				
<b>Lamp type:</b> 21: Torch (miniature) 31: Torch (middle) 32: Torch (middle)				
<b>Case material:</b> P: Plastic Mobile Ex product				

**Ex code**
**ExMP21N:**

Ⓔ I M1 Ex ia I Ma

Ⓔ II 1 G Ex ia IIC T4 Ga or Ex ia IIC T3 Ga

Ⓔ II 2 D Ex ib IIIB T130°C Db

**ExMP21R, ExMP31R, ExMP32R:**

Ⓔ I M2 Ex ib I Mb

Ⓔ II 2 G Ex ib IIC T4 Gb

Ⓔ II 2 D Ex ib IIIB T130°C Db

**ExMP31N, ExMP32N:**

Ⓔ I M1 Ex ia I Ma

Ⓔ II 1 G Ex ia IIB T4 Ga or Ex ia IIB T3 Ga

Ⓔ II 2 G Ex ib IIC T4 Gb or Ex ib IIC T3 Gb

Ⓔ II 2 D Ex ib IIIB T130°C Db

**Electrical Data**

**ExMP21N:**

Rated voltage: 1.5 V d.c. x 2

**ExMP31N, ExMP32N:**

Rated voltage: 1.5 V d.c. x 3

**ExMP21R, ExMP31R:**

Um (for charging): 5 V d.c.

Rated voltage of battery pack: 3.6 V d.c.

Rated capacity of battery pack: 3350 mAh

**ExMP32R:**

Um (for charging): 5 V d.c.

Rated voltage of battery pack: 3.6 V d.c.

Rated capacity of battery pack: 6700 mAh

**Degrees of protection (IP Code)**

IP66, IP67 (1 m, 30 min)

**Ambient temperature:**

Products ExMP21N, ExMP31N and ExMP32N:

-40°C to +50°C for I Ma, T4 Ga, T4 Gb and T130°C Db

-40°C to +55°C for I Ma, T3 Ga, T3 Gb and T130°C Db

Products ExMP21R, ExMP31R and ExMP32R:

-40°C to +55°C

**Routine tests**

None

[16] **Report No.:** 2023-9484, Rev. 00  
**Project No.:** PRJN-506015

[17] **Specific Conditions of Use**

**For products ExMP21N, ExMP31N and ExMP32N:**

- Use only DURACELL or Panasonic LR6 cells.
- Do not disassemble the product or replace cells when an explosive atmosphere is present.

**For products ExMP21R, ExMP31R, ExMP32R:**

- Do not charge the product in hazardous location.
- The charger shall be SELV or PELV certified with output voltage of maximum 5 V d.c..
- Do not disassemble the product or replace the battery pack in hazardous location.
- Use only respective replaceable battery pack for below products:

Product type	Battery pack
ExMP21R	18650-1S1P-02
ExMP31R	18650-1S1P-01
ExMP32R	18650-1S2P-01

[18] **Essential Health and Safety Requirements**

Met by compliance with the requirements mentioned in item 9.

[19] **Drawings and documents**

As listed in confidential report 2023-9484.

[20] **Certificate History**

Issue	Description	Issue date	Report no.
0	Original issue	2023-06-23	2023-9484, Rev. 00

END OF CERTIFICATE

