MTEx
Ontploffingvoorkomingstegnologie
Explosion Prevention Technologies

MTEx Laboratories

Pretoria
110 Rivier Weg
Lyttelton
Centurion
0157

Cape Town
Unit 7 Prodev Park
2 Vonkel Straat
Kuilsrivier
7579

INSPECTION AUTHORITY (IA) CERTIFICATE

ExPERITUS (Pty) Ltd.
The Colosseum Building
Foyer 3, First Building
Century Way
Century City
Western Cape
7441

Issued: 2026/10/30
Expire$_5$: 2029/10/30
Revision: 0
Job File: 3707

Applicant:
EXPERITUS (PTY) LTD.

For validity purposes, the following Marking must be added to all equipment covered by this certificate:

IA Number: MTEx-MS/26.0830 X
Manufacturer: Shenzhen Goaltek Electric Co., Ltd.
Supplier: ExPERITUS (Pty) Ltd.
Equipment: Explosion-proof torch
Model/Type: ExMP21N/R, ExMP31N/R, ExMP32N/R
Ex Rating:

ExMP21N:
Ex ia I Ma
Ex ia IIC T4 Ga or Ex ia IIC T3 Ga
Ex ib IIIB T130°C Db

ExMP21R, ExMP31R, ExMP32R:
Ex ib I Mb
Ex ib IIC T4 Gb
Ex ib IIIB T130°C Db

ExMP31N, ExMP32N:
Ex ia I Ma
Ex ia IIB T4 Ga or Ex ia IIB T3 Ga
Ex ib IIC T4 Gb or Ex ib IIC T3 Gb
Ex ib IIIB T130°C Db

Serial No.: All units imported between the issue and expiry dates of this certificate.

Reviewed By + Signature (TL):	C. Coetzee	
Approved By + Signature (CB): (MTEx Laboratories Technical Signatory)	D. Young	

mineral resources Department: Mineral Resources REPUBLIC OF SOUTH AFRICA AIA Number: E1
employment & labour Department: Employment and Labour REPUBLIC OF SOUTH AFRICA AIA Number: CL016

MTEx Laboratories is an Accredited Test Laboratory (ATL) in terms of the NCOP: "Regulatory Requirements for Explosion-Protected Apparatus".

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Standards used:

SANS 60079-0: 2019 Ed.6 IEC 60079-0: 2017 Ed.7	Explosive atmospheres – Part 0: General requirements.
SANS 60079-11: 2012 Ed.4 IEC 60079-11: 2011 Ed.6	Explosive atmospheres – Part 11: Equipment protection by intrinsic safety "i".

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

This certification indicates compliance with R10.1 of the Mines Health and Safety Act and/or EMR 9(3) of the Occupational Health and Safety Act, provided that the apparatus is used as prescribed in accordance with the following **Notes**:

1) Compliance with any conditions set out in this Certificate.
2) This certificate only covers equipment imported between the "Issued" and "Expiry" dates of this certificate.
3) When the supporting Q.A.N. (Quality Assurance Notification) of the equipment manufacturer expires, it is the responsibility of the applicant (as mentioned above) to submit a valid Q.A.N to MTEx Laboratories.
4) It is the responsibility of the supplier to ensure that the marking label complies with the requirements of the relevant regulator.
5) Once issued, the certificate remains valid for the serviceable lifecycle of the device. The state of the device is validated by visual or close inspections, by the end user, at intervals not exceeding two years.'

1. OVERVIEW

The ExMP21 N Ex torch consists of a plastic enclosure in which one LED light source, two primary cells, and several circuit boards are installed inside.
The ExMP31 N Ex torch consists of a plastic enclosure in which one LED light source, three primary cells, and 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 ExMP21 R Ex torch consists of a plastic enclosure in which one LED light source, a battery pack (one Lithium-Ion secondary cell), and several circuit boards are installed inside.
The ExMP31 R 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), and several circuit boards are installed inside the body.
For ExMP21 R, 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	☐	☐	
					Type of cell: N: Primary cell R: Secondary cell
					Lamp type: 21: Torch (miniature) 31: Torch (middle) 32: Torch (middle)
					Case material: P: Plastic
					Mobile
					Ex product

2. REASON FOR REVIEW

Revision 0: National Code of Practice (NCOP) Requirements.

3. DOCUMENTATION PROVIDED

- EU-Type Examination Certificate (DNV 23 ATEX 92608 X).
- Product Quality Assurance Notification (DNV 23 ATEX 22174Q).
- IECEx Certificate of Conformity (IECEx DNV 23.0029 X).
- IECEx Quality Assessment Report (NO/DNV/QAR23.0010/02).

4. ELECTRICAL / SAFETY PARAMETER

ExMP21N:
Rated voltage: 1.5 V d.c. x 2

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

ExMP31N, ExMP32N:
Rated voltage: 1.5 V d.c. x 3

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

5. INSTALLATION INSTRUCTIONS

The instructions provided with the product shall be followed in detail to assure safe operation.

6. CONDITIONS OF CERTIFICATE (X)

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

MTEx Laboratories

Note: This document may not be reproduced except in full.
MTEx Laboratories takes no responsibility for any non-conforming tests / assessments / results which is not in compliance with the relative Standards. By marking the equipment as mentioned in the documentation, the manufacturer takes full responsibility that the equipment has indeed complied with the original type assessment and has been subjected to any routine verification(s) / test(s) respectively.

End of Certificate.