

INSPECTION AUTHORITY (IA) CERTIFICATE

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

Issued: 2025/10/31
Expire: 2028/10/31
Revision: 0
Job File: 3214

Applicant:

EXPERITUS (PTY) LTD.

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

IA Number: MTEx-S/25.0561 X
Manufacturer: Xshielder AS
Supplier: ExPERITUS (Pty) Ltd.
Equipment: Smartphone
Model/Type: XS1-SP-G01-C01-S0* /***_*****_*_*_*
Ex-Rating : Ex db IIC T6 Gb
Ex tb IIIC T80°C Db
Serial No.: All units imported between Issued and Expiry dates of this Certificate.



Standards used:

SANS 60079-0: 2019 Ed.6 IEC 60079-0: 2017 Ed.7	Explosive atmospheres – Part 0: General requirements.
SANS 60079-1: 2015 Ed.5 IEC 60079-1: 2014 Ed.7	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d".
SANS 60079-31: 2014 Ed.2 IEC 60079-31: 2013 Ed.2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t".

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.

Reviewed By + Signature (TL):	A. van Niekerk	
Approved By + Signature (CB): (MTEx Laboratories Technical Signatory)	D. Young	

1. OVERVIEW

The device consists of flameproof enclosure containing an iPhone 15 Pro Max or iPhone 16 Pro Max smartphone. The enclosure is constructed from aluminium. On front and back side, the enclosure has glass windows for touch display, wireless charging and camera function. Buttons are made of aluminium and are kept in place by a flange on the inside. The device is protected by rubber bumpers on all four corners. The lid and glass parts are cemented to the enclosure.

Model identification:

XS1-SP-G01-C01-S0* /***_*****_*_*_*

- S01 is version without cemented lid and
- S02 is version with cemented lid.
- / ***_*****_*_*_* is for internal use (not relevant for Ex protection)

Warning marking:

"DO NOT OPEN IN HAZARDOUS AREA" (only for XS1-SP-G01-C01-S01 / ***_*****_*_*_* version)

XS1-SP-G01-C01-S0* /***_*****_*_*_*

version is designed with cemented joints.

2. REASON FOR REVIEW

Revision 0: ARP 0108 Requirement (Initial IA Certificate).

3. DOCUMENTATION PROVIDED

- EU - Type Examination Certificate (FIDI 24 ATEX 0075 X, Rev 0).
- IECEx Certificate of Conformity (IECEx FIDI 24.0017X, Issue 1).
- IECEx Quality Assessment Report (NO/DNV/QAR24.0016/01).

4. ELECTRICAL / SAFETY PARAMETERS

Electrical data:

Battery supply 3.9 V DC

Ambient temperature range: -20°C to +50 °C

5. INSTALLATION INSTRUCTIONS

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

6. CONDITIONS OF CERTIFICATE (X)

- A repair of flameproof joints is not allowed according to IEC/SANS 60079-1 values.
- Fasteners shall only be replaced with identical ones. The minimum tensile strength must be 500 MPa.
- Smartphone is tested for low impact energy and shall not be exposed to high impact risk.
- Opening is not allowed by the user.
- Battery charging is only allowed outside the hazardous area.

MTEEx Laboratories

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MTEEx 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 Report