MTEx Laboratories

Ontploffingvoorkomingstegnologie
Explosion Prevention Technologies

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INSPECTION AUTHORITY (IA) CERTIFICATE

i.safe MOBILE GmbH.
i_Park Tauberfranken 10
97922 Lauda-Koenigshofen
Germany

Issued: 2022/11/24
Expire: 2025/11/24
Revision: 0
Job File: 2015

Applicant:
i.safe MOBILE GmbH.

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

IA Number:	MTEx-S/22.0568 X
Manufacturer:	i.safe MOBILE GmbH
Supplier:	i.safe MOBILE GmbH
Equipment:	Intrinsically Safe and Multifunctional Industrial Smartphone
Model/Type:	IS530.2
Ex Rating:	Ex ic IIC T4 Gc IP64
	Ex ic IIIC T135°C Dc IP64
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 60079-11: 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 8(1) of the Occupational Health and Safety Act, provided that the apparatus is used as prescribed in accordance with:

1) Any conditions set out in this Certificate.
2) This certificate only covers equipment imported between the "Issued" and "Expiry" dates.
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) The test results presented in this "Ex" Test Report relate only to the item or product testing.
5) Note: It is the responsibility of the supplier to ensure that the marking label complies with the ARP 0108.
6) This Certificate validates all units imported between Issued and Expiry date

Reviewed by + Signature (ExTL):	A. van Niekerk	
Approved by + Signature (ExCB): (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 ARP 0108: "Regulatory Requirements for Explosion-Protected Apparatus"

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Page 1 of 3

1. OVERVIEW

Equipment and systems covered by this Certificate are as follows:

The intrinsically safe, multifunctional, and rugged industrial smartphone IS530.2 has been designed for use in explosion hazardous areas of zone 2 and 22. It provides numerous technologies like 4G (LTE), NFC, GPS, Wi-Fi and Bluetooth LE. The IS530.2 is equipped with an Android operating system, large internal memory, amplified loudspeaker, replaceable battery pack and functional 13-pin ISM interface.

2. REASON FOR REVIEW

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

3. DOCUMENTATION PROVIDED

- Ex-Type Examination Certificate (EPS 19 ATEX 1 070X Issue 0).
- IECEx – Type Examination Certificate (IECEx EPS 19.0033X Issue 0).
- IECEx Quality Assessment Report (DE/EPS/QAR12.0003/14).

4. ELECTRICAL / SAFETY PARAMETERS

Power supply:
The smartphone may only be used with the approved, intrinsically safe battery pack BPIS530.2 made by i.safe MOBILE GmbH. LiPo battery U_o = 3.8 V (U_{o_max} = 4.35 V) / 3.6 Ah / 13.68 Wh.

It is permissible to charge the battery pack alone outside the device via an approved charging adapter.

Interfaces:
The device has a lateral magnetic charging port with which it can be charged outside hazardous areas via an approved charging adapter. The contacts are intrinsically safe for gas and dust.

Furthermore, the device has an USB interface (type C) for charging and data transmission outside hazardous areas. It is not permitted to open the USB interface cover in hazardous areas.

The ISM interface of the IS530.2 can be used within hazardous areas with approved headsets, Remote Speaker Microphones (RSM) and add-ons, marking the smartphone a multifunctional equipment for industrial applications. For ISM interface use, the i.safe MOBILE headset IS-HS1.1, IS-HS1.2 or approved, intrinsically safe accessories may be used, which comply with the entity parameters of the ISM interface according to document 1029AD04. If the ISM interface is not used, it must be securely closed by the cover provided for this purpose.

5. INSTALLATION INSTRUCTIONS

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

6. CONDITIONS OF CERTIFICATE (X)

- The battery may be charged outside explosion hazardous areas only.
- The device must be protected against excessive UV light emission and high electrostatic charge processes.
- The permitted ambient temperature range is -20 °C to +60 °C.

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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