



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx INE 16.0022X Issue No: 0 Certificate history:
Issue No. 0* (2016-04-14)

Status: **Draft** Page 1 of 3

Date of Issue: **2016-04-14**

Applicant: **TAB d.d., Tovarna akumulatorskih baterij**
Polena 6,
2390
Slovenia

Electrical Apparatus: **TRACTION BATTERIES TYPES TABEx...**

Optional accessory:

Type of Protection: **"e" "tb"**

Marking: Ex e IIB or IIC T5 Gb
Ex tb IIIC T100°C Db
Ex e I Mb

Approved for issue on behalf of the IECEx
Certification Body:

Position:

Signature:
(for printed version)

Date: _____

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

INERIS
Institut National de l'Environnement Industriel
et des Risques
BP n2
Parc Technologique ALATA
F-60550 Verneuil-En-Halatte
France



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Manufacturer: **TAB d.d., Tovarna akumulatorskih baterij**
Polena 6,
2390
Slovenia

Additional Manufacturing
location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

- | | |
|---|--|
| IEC 60079-0 : 2011
Edition:6.0 | Explosive atmospheres - Part 0: General requirements |
| IEC 60079-31 : 2013
Edition:2 | Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t" |
| IEC 60079-7 : 2006-07
Edition:4 | Explosive atmospheres - Part 7: Equipment protection by increased safety "e" |

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

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[FR/INE/ExTR16.0022/00](#)

Quality Assessment Report:

[SI/SIQ/QAR11.0004/02](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

These increased safety batteries types TABEx... consist of a metallic container and cover completely coated with an epoxy or plastic insulating. The container can be equipped with welded insulating separation for not having a voltage exceeding 40 V in the interior of each compartments.

The container is equipped with ventilation wings which ensure a degree of protection IP23 and a sufficient ventilation.

The batteries cells used are IECEx certified, and types EPzS, EPzV, PzB, and PzBV (2V and maximum 155Ah) certificates of conformity numbers : IECEx SIR 11.0157U

Different rigid or flexible connection describe in the manufacturers documents can be used.

The batteries are intended to be used with Bertinex connectors types SPB... and SPU2*/*.

CONDITIONS OF CERTIFICATION: YES as shown below:

For the group I only, during the installation, the user will take into consideration that the equipment underwent only a shock corresponding to an energy of a low risk.

For the equipment with a permanently connected cable, the user will have to connect the free extremity of cable either in a non-explosive atmosphere, or in an enclosure protected by a recognized protection mode adapted to the area.

The other conditions are stipulated in the instructions.

Annex:

[IECEx INE 16.0022X-00_Annex.pdf](#)

ROUTINE EXAMINATIONS AND TESTS

LIST OF CERTIFIED COMPONENTS

Component	Type	Certificate
IECEx INE 16.0022X	EPzS, EPzV, PzB, PzBV	IECEx SIR 11.0157U



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Annexe: IECEX INE 16.0022X-00_Annex.pdf

TYPE DESIGNATION

TABEx : TAB Battery Ex e

1 = Flexible connections

2 = Rigid connections

PARAMETERS RELATING TO THE SAFETY

Maximum Voltage = from 12 to 400 V

Maximum Power = 155 kWh

Maximum Cell's Capacity = from 23 to 155 Ah

Maximum discharge current = from 4.6 to 31 A (0.2 x cell's capacity)

MARKING

Marking has to be readable and indelible; it has to include the following indications:

For group II and/or group III :

- TAB d.d.
- Polena 6 – 2390 - Slovenia
- TABEx... (*)
- IECEX INE 16.0022X
- (Serial number)
- Ex e IIB or IIC T5 Gb
- And/or
- Ex tb IIIC T100°C Db (**)
- IP64 (***)
- Cable entries : See instructions

WARNINGS : DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT
DO NOT CHARGE IN HAZARDOUS AREA



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For Group I :

- TAB d.d.
- Polena 6 – 2390 - Slovenia
- TABEx... (*)
- IECEx INE 16.0022X
- (Serial number)
- Ex e I Mb
- IP64 (***)
- Cable entries : See instructions

WARNINGS : DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT
DO NOT CHARGE IN HAZARDOUS AREA

(*) Type must be completed in accordance the type designation.

(**) Group III possible only with connection with live part completely isolated

(***) Possible only with connection with live part completely isolated

Marking may be carried out in the language of the country of use.

The protective system or equipment has also to carry the marking normally stipulated by its construction standards.

ROUTINE EXAMINATIONS AND TESTS

Each apparatus defined above has to have successfully passed; before delivery:

In accordance with clause 6.6.2 of the EN 60079-7 standard, a test of dielectric strength on each of the battery.

LIST OF CERTIFIED COMPONENTS

Components certificate	Type	Certificate
IECEx SIR 11.0157U	EPsZ, EPzC, PzB and PzBV traction batteries	IEC 60079-0 : 2011, IEC 60079-7 : 2015, IEC 60079-31 : 2013