

EU-Type Examination Certificate Supplement 2

Change to Directive 2014/34/EU

Components intended for use on/in an Equipment or Protective System intended for use in potentially explosive atmospheres
Directive 2014/34/EU

EU-Type Examination Certificate Number: **BVS 13 ATEX E 035 U**

Product: **Cell type Saft M52 EX SV**

Manufacturer: **Friemann & Wolf Batterietechnik GmbH**

Address: **Industriestraße 22, 63654 Büdingen, Germany**

This supplementary certificate extends EC-Type Examination Certificate No. BVS 13 ATEX E 035 U to apply to products designed and constructed in accordance with the specification set out in the appendix of the said certificate but having any acceptable variations specified in the appendix to this certificate and the documents referred to therein.

DEKRA EXAM GmbH, Notified Body number 0158, in accordance with Article 17 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 the confidential Report No. BVS PP 13.2073 EU.

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012 + A11:2013 General requirements
EN 60079-11:2012 Intrinsic Safety "I"

The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system respectively product.

This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of the product shall include the following:

 **II 2G**

DEKRA EXAM GmbH
Bochum, 2016-12-19



Certifier



Approver

13 **Appendix**

14 **EU-Type Examination Certificate**

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Supplement 2**

15 **Product description**

15.1 **Subject and type**

Cell type Saft M52 EX SV

There are six different variants of the cell type Saft M52 EX SV. The different part numbers and configurations are not relevant for intrinsic safety.

Saft M52 EX SV configurations

Cell designation	Part Number	Tab configuration
Saft M52 EX SVKP/S	414 2177 103	Positive and negative endcaps
Saft M52 EX SV/T	414 4170 203	+/- tabs in C-configuration
Saft M52 EX SV/T/Z	414 4170 703	+/- tabs in Z-configuration
Saft M52 EX SVK/+T	414 2170 403	+ tab and negative endcap
Saft M52 EX SVK/T	414 2170 203	+/- tabs in C-configuration and negative endcap
Saft M52 EX SVK/T/Z	414 2170 703	+/- tabs in Z-configuration and negative endcap

15.2 **Description**

The cell type Saft M52 EX SV is a Lithium-Manganese Dioxide (Li-MnO₂) cell and consists of a spirally wound electrode construction and has a thin separator.

The cell code for this cell type Saft M52 EX SV includes the charge number and the specification of the version.

This component should not be brought without any additional safety elements in a potentially explosive atmosphere. See clause 17 for installation instructions.

Reason for the supplement:

Change to Directive 2014/34/EU and the construction of the cell type Saft M52 EX SV was slightly modified.

15.3 **Parameters**

15.3.1 **Electrical data**

Nominal voltage

$U_0 = 3.0 \text{ V}$

Rated capacity

5.6 Ah at 60 mA

15.3.2 **Permissible ambient temperature range**

-40 °C to +72 °C



16 Report Number

BVS PP 13.2073 EU, as of 2016-12-19

17 Installation Instructions

- 17.1 This component should not be brought without any additional safety elements in a potentially explosive atmosphere.
- 17.2 The combination of the cell and the safety elements have to be tested separately and certified.
- 17.3 For the temperature class T4 this cell is intended for use in a temperature range at the mounting location from -40 °C to +72 ° C.
- 17.4 Read Operating Instructions Saft M52 EX SV Cell before use.

18 Essential Health and Safety Requirements

The Essential Health and Safety Requirements are covered by the standards listed under item 9.

19 Drawings and Documents

Drawings and documents are listed in the confidential report.