



## Translation

# (1) EC-TYPE EXAMINATION CERTIFICATE



(2) Equipment or protective system intended for use in potentially explosive atmospheres - **Directive 94/9/EC**

(3) EC-Type Examination Certificate Number

## **TÜV 02 ATEX 1835 X**

(4) Equipment: Spark extinguisher Model BS 7  
(5) Manufacturer: Fagus GreCon Greten GmbH & Co KG  
(6) Address: Hannoversche Str. 58  
D-31061 Alfeld

(7) This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The TÜV NORD CERT GmbH & Co. KG, TÜV CERT-Certification Body, notified body number N° 0032 in accordance with Article 9 of the Council Directive of the EC of March 23, 1994 (94/9/EC), certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems 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 N° 02 YEX 161233.

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

### **EN 50 281-1-1:1998+A1**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-type examination certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. This certificate does not cover these.

(12) The marking of the equipment or protective system must include the following:

TÜV NORD CERT GmbH & Co. KG  
TÜV CERT-Certification Body  
Am TÜV 1  
D-30519 Hannover  
Tel.: 0511 986-1470  
Fax: 0511 986-2555

Hannover, 2002-09-27

Head of the  
Certification Body





(13)

## SCHEDULE

(14) **EC-TYPE EXAMINATION CERTIFICATE N° TÜV 02 ATEX 1835 X**

(15) Description of equipment

The spark extinguisher BS 7 is used to detect and extinguish sparks in the discharge flow of flammable dust.

It consists of optical wave-guides, the spark detector and the spark extinguisher.

The separately certified power limiter (TÜV 02 ATEX 1838 X) maintains the maximal surface temperature.

### Technical data

Range of permitted ambient temperature	- 20 °C to 70 °C
IP-Protection of spark detector	IP 65
Max. temperature in discharge flow	200°C
Establishing contact	A: test line B: GND C: Supply main
Rated voltage	Circuit A - B 24 V DC ±2%
Rated voltage	Circuit C - B 20 V DC ±2%

(16) Test documents are listed in the test report No.: 02 YEX 161233.

(17) Special conditions for safe use

- Safety grounding of the housing of the spark detector is not necessary, since an isolation transformer divides the potential.
- The flame detector may only be opened outside potentially explosive areas.
- The plug of the spark detector may only be unplugged 3 seconds after the unit is switched off.
- The line feed for tension relief must be certified as per Directive 94/9/EC.
- The above-mentioned unit is not marked with a specification of the range of acceptable environmental temperatures. This information should be obtained from the operating instructions.

(18) Essential Health and Safety Requirements

No additional ones