Consequences of fire and explosions

A fire or an explosion can have serious consequences for your company:

- Injury and loss of human life
- Damage to machines, transport facilities and storage space
- Production interruptions
- Loss of income
- Repair / Replacement costs due to damaged machines
- Loss of customers

The right solution for your airlaid production

To protect your production, your staff and your machines against fire and explosions, GreCon offers you…

- a fast, reliable spark extinguishing system which is especially adapted to your production
- the detection of sparks and glowing particles in the areas at risk
- the immediate automatic diversion of ignition sources out of the conveying system or water or gas extinguishment – in 99 percent of cases without production interruption
- recording of events down to the millisecond to help identify the cause of a problem

Fagus-GreCon Greten GmbH & Co. KG

P.O. Box 1243
D-31042 Alfeld-Hanover

Phone +49(0)5181-79-0
Fax +49(0)5181-79-229
E-Mail sales@grecon.com

www.grecon.com

GreCon Fire Protection

GreCon Measuring Technology

GreCon Service

GreCon

Fire and Explosion Protection in the Hygiene Industry

Hygiene

EN | R.01 | 2014.04

Fire and explosion protection in airlaid production

The **hygiene industry** produces important everyday commodities. Sanitary towels, **napkins,** incontinence products or floor cloth use **airlaid as absorbent core.** Airlaid is produced from **cellulose** and binding agents. It is **not** processed in **water,** as usual in the production of paper, but in dry condition in a so-called **compressed air method.** Therefore the term ”airlaid“.

The **processing of cellulose** by **hammer mills,** the forming process by **air flow** and the **drying** of the material hold a high risk of fire.

A GreCon spark detection and extinguishment system significantly increases the safety and protection of the production facilities. It detects sparks in time and automatically extinguishes them – and has done so successfully for more than 35 years.

Risks in airlaid production

Due to the fine **grinding** of the **mostly combustible materials,** single sparks or overheated particles are sufficient for an ignition. Defective machine parts, foreign bodies or high process temperatures can cause overheating, sparks or glowing embers that can cause fire and dust explosions in the mechanical and pneumatic conveying facilities and downstream filters, silos and bins.

Danger zones in airlaid production

Fire or explosions in airlaid production can damage or even destroy the facilities.

A GreCon spark detection and extinguishment system monitors and protects the following areas at risk:

- Hammer mills
- Fibre opening
- Forming
- Extraction systems
- Filters

Diagram of protection concept for the hygiene industry