



Fire and Explosion Protection in the Hygiene Industry

The hygiene industry produces important everyday commodities. Hygiene products 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 dangerous ignition sources in time and automatically extinguishes them without interrupting production – and has done so successfully for more than 35 years.

THE RIGHT SOLUTION

- ✓ 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
- ✓ protection without interrupting production

RISKS

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

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

