

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 (filters and silos)
- Serious production interruptions
- Loss of income
- Repair / Replacement costs due to damaged machines
- Loss of customers

The right solution for your flour production

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

- a fast, reliable **spark detection system, including additional measures**, that is especially adapted to your production
- the detection of sparks and glowing particles in the areas at risk (**e.g. transport ducts from mills to silos and storage space**)
- the immediate automatic diversion of sparks and glowing particles out of the conveying system with following 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

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GreCon

Fire and
Explosion Protection
in Flour Production


Fire
Protection


Measuring
Technology



EN | R.01 | 2014.04
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Flour



Fire and explosion protection in flour production

In flour productions, cereal grains are industrially processed in large amounts. The whole process, especially the grinding process as well as the transport to silos and storage space, holds a high risk of fire. Sparks, glowing embers or particles generated in the plant areas can ignite dry, inflammable and explosive material. This could cause severe damage or lead to undesired changes in taste and thus to impairment of quality by contamination.

A GreCon spark detection system, including additional measures, significantly increases the safety and protection of the production facilities. It detects sparks in time and prevents their transport to downstream processes – and has done so successfully for more than 35 years.

Risks in flour production

When producing flour, highly inflammable dust is generated that puts the entire production plant at a high risk of fire and explosion. Overheating, caused by frictional heat (e.g. in mills), as well as sparks or glowing embers can ignite the dust and cause severe damage to downstream production processes and storage space.

Danger zones in flour production

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

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

- Silos
- Mills
- Conveying facilities
- Extraction systems
- Filters



Diagram of protection concept for the flour industry

