

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

The right solution for your chemical 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
- an early extinguishment by suitable extinguishing media or mechanical elimination of sparks by diversion gates
- recording events down to the millisecond to help identify the cause of a problem

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GreCon

Fire and Explosion
Protection in the
Chemical Industry

GreCon

Fire
Protection

GreCon

Measuring
Technology

GreCon

Service



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Chemistry

Fire and explosion protection in the chemical industry

The chemical industry is a very heterogeneous industry. Organic and inorganic base materials and chemicals, fertilizers, colours, plastics, pharmaceuticals, explosive substances, cleaning materials and cosmetics constitute only a small part of the whole range. Many chemical products have a high risk of fire in common. They can be easily inflammable and often also sensitive to mechanical strain. Sparks, glowing embers or overheating can be generated which can easily cause serious fire and explosions.

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 the chemical industry

Sources of danger exist in the entire production process. Sparks can be caused by foreign bodies in the mill or by defective machine parts. Overheating often occurs in the dryer area. If the ignition sources reach filters, silos or bins via extraction and conveying facilities, they can cause serious fire and explosions.

Danger zones in the chemical industry

Fire or explosions in the chemical industry can damage or even destroy the facilities.

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

- | | |
|----------------|---------------|
| ■ Extruder | ■ Spray tower |
| ■ Tablet press | ■ Cyclone |
| ■ Mixer | ■ Filter |
| ■ Sieve | ■ Dryer |



Diagram of protection concept for the chemical industry

