



## Fire and Explosion Protection in the Chemical Industry

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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 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

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

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
- ✓ Sieve
- ✓ Filter
- ✓ Tablet press
- ✓ Spray tower
- ✓ Dryer
- ✓ Mixer
- ✓ Cyclone

# DIAGRAM OF PROTECTION CONCEPT

