



## **SAFE AND RELIABLE PROCESSES AND METHODS**

### Explosion protection



Precautionary measures against explosions are of fundamental significance for the safety of chemical and petrochemical plants. We have the required methodologies and the necessary expertise to develop effective explosion protection concepts on your behalf.

If a plant generates combustible substances in the form of gases, dust, fluid vapors, fog, or aerosols, explosion protection measures must be taken, and an explosion protection document must be filed. We take care of your documentation requirements pursuant to BetrSichV (Betriebssicherheitsverordnung [Operational Safety Directive]) or GefStoffV (Gefahrenstoffverordnung [HAZMAT Directive]).

Our services:

- Consult on explosion protection based on stipulations in the relevant technical regulations
- Assess technical safety characteristic parameters, in collaboration with external labs and subject matter experts, where appropriate
- Define ATEX zones (zone classifications)
- Define temperature classes and explosion groups
- Risk assessment with ignition risk assessment and analysis (in particular, legacy equipment without ATEX certification)
- Recommend suitable primary, secondary, and tertiary explosion protection measures
- Document in the form of an explosion protection document in accordance with BetrSichV/GefStoffV (including graphical depiction in ATEX zone diagrams, where appropriate)

### Your experts

Get in touch with us - we will be happy to advise you.

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