ATEX

explosionprotection

Suppression

English

An explosible Mixture

The handling of ignitable dusts is an every day hazard in process industries. More than 80 % of all industrial dusts are explosible. The early identification of these hazards and the appropriate application of protection measures not only saves lives and equipment, but also plant downtime. The ATEX Fire and Explosion Protection experts and its worldwide trained representatives take care of your safety.

Customer designed solutions protect live and environment

The Explosion Suppression System AIS (Advanced Inerting System) from ATEX gives protection where combustion and the subsequent explosion pressure could exceed the strength of your production facility. The combustion reaction is detected at its very early stages and its propagation extinguished. The growing explosion is suppressed by quick release of an appropriate extinguishant into the combustion zone. The goal is to restrict the expansion of the explosion and thus to keep the consequences to a minimum. Your personnel is effectively protected against pressure, heat and flames. Depending on the application, ATEX protection systems employ extinguishing powder, water and now our new hot water system.

The ATEX Safety concept

The ATEX Safety concept for your plant – Detection with Zero Tolerance

Three essential components guarantee your safety:

- Detection and Registration – The ATEX Detection Systems
- Control and Supervision – The ATEX Modular Control Unit AE10XX
- Extinguishing to suppress your plant – The ATEX Extinguishant Container

The Detection System, the Control Unit and the Suppression Bottles form the integrated Protection System. They collect, analyse and store (a new technology used in the automobile industry) all necessary information to establish and control a continuous selfcheck of the protectionsystem. On activation of the Suppression System the pressure, time and system data are stored permanently to allow a thorough incident analysis after the event.

Effective Protection in explosive Situations – with Extinguishants by ATEX

The Detection System continuously surveys the protected enclosure. On detection of the inititial combustion the appropriate actions are triggered and the suppressor is activated. Within the blink of an eye the suppressant is released into the protected area via a special valve system. The combustion reaction is suppressed and the pressure increase stopped. Consequences of the incident are kept to a minimum.

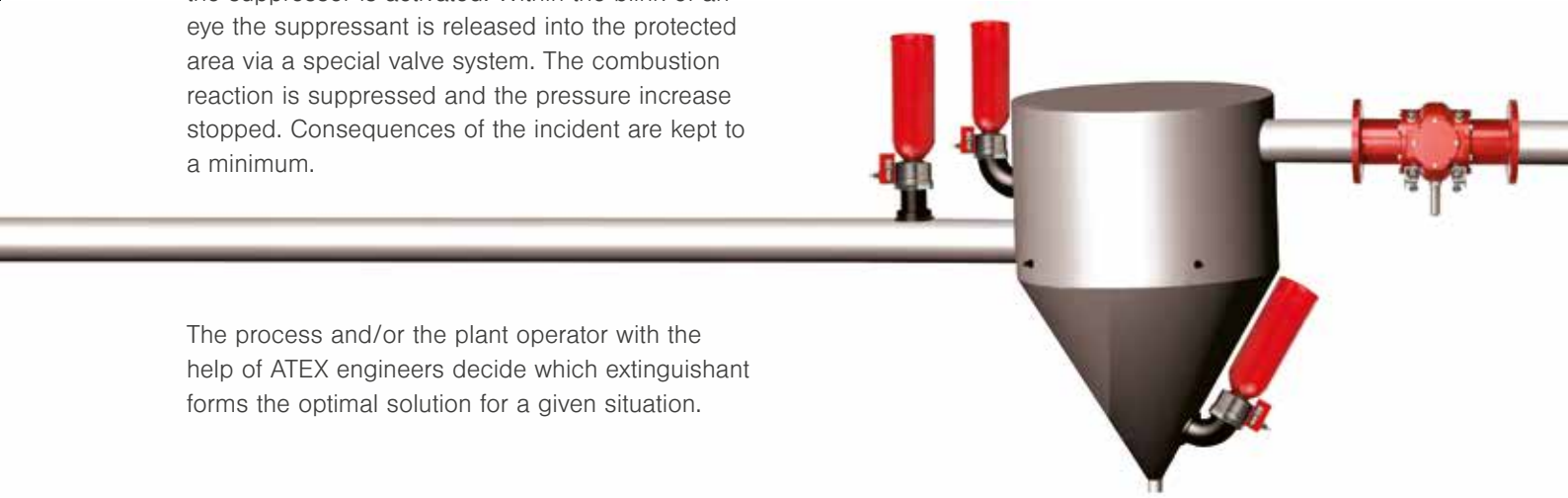
The process and/or the plant operator with the help of ATEX engineers decide which extinguishant forms the optimal solution for a given situation.

Your Advantages – Safe operation, low cost of ownership and quick Refurbishment

- Additional safety during assembly and exchange of the bottles by manual locking system.
- Quick and low cost refurbishment through reusable release valves
- Simple exchange system with reusable valves and the ATEX quick release plug connection
- Time and cost effective reconditioning
- Safe handling of release valve through completely encapsulated release mechanism
- Addressable system gives full control on all installed components
- Complete supervision of the protection syste locally and /or via the ATEX remote communication module with competent ATEX Service locations world wide.
- Permanent event data storage

Quick, direct and reliable

The extinguishant absorbs energy and inerts the local atmosphere. This is how you, with the help of ATEX Explosion Suppression Systems extinguish the explosion in its very early stage of development.



ATEX worldwide

explosionprotection **by ATEX**

ATEX Protection Systems and Safety Solutions have been developed by Fire and Explosion-Protection experts with extensive experience from industry and safety technologies.

The ATEX Fire and Explosion Protection Concept combines the practical requirements of a production oriented industrial installation with the appropriate safety measures. This guarantees the undisturbed operation of your plant and enhances its productivity. The advantage of using ATEX Systems is recognised world wide.

Germany

ATEX Explosionsschutz GmbH
Auf der Alm 1
59519 Möhnesee
Deutschland
Tel: +49 (0) 2924 8790-0
Fax: +49 (0) 2924 8790-455
info@atex100.com
www.atex100.com

ATEX Explosionsschutz GmbH
Niederlassung NSW
Akazienweg 8
64665 Alsbach-Hähnlein
Deutschland
Tel. +49 6257 697 53
Fax +49 6257 697 57
info@atex100.com

United Kingdom

ATEX Explosion Hazards Limited UK
Unit 7 Cranford Court
Hardwick Grange, Woolston
Warrington, Cheshire, WA1 4RX
Tel: +44 1925 755153
info@explosionhazards.co.uk
www.explosionhazards.co.uk

USA

ATEX-Explosion Protection, LP
Suite 121
2629 Waverly Barn Road
Davenport, FL 33897
USA
Tel. +1 863 424 3000
Fax +1 863 424 9797
service@atexus.com

New Zealand

Atex Fire and Explosion Protection Ltd.
630D Great South Rd
Ellerslie 1051
Auckland/New Zealand
Tel: +64 (0) 9 215 8885
Fax: +64 (0) 9 274 3823
c.kaars@atexnz.com
www.atexnz.com

Spain

ATEX Iberica
C/ Tirso de Molina nº 36
08940 Cornellá de Llobregat
Barcelona
Spain
Tel: +34 674723209
info@atexiberica.com
www.atexiberica.com

Japan

ATEX Fire and Explosion Protection, Ltd.
TOC Ariake West Tower 7F
3-5-7 Ariake
Koto-ku, Tokyo,
135-0063 Japan
Tel +81 (0)3-6457-1311
Fax +81 (0)3-6457-1341
t.suzuki@atex100.com
www.atex100.com