

# Chemical Isolation - Protective System



## Description

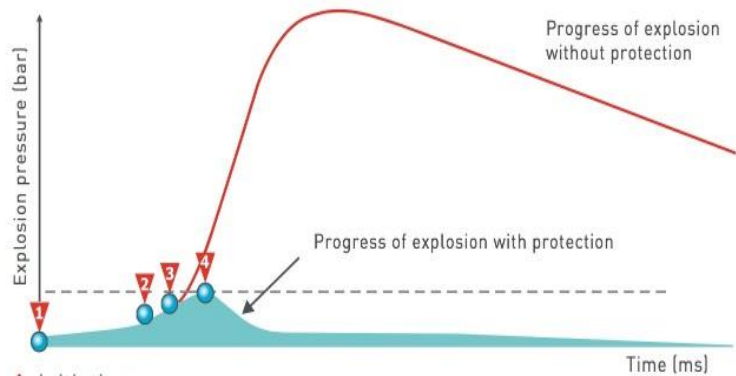
Chemical isolation is designed to prevent an explosion from propagating through the duct work following the fuel source back inside the facility. It must be used in combination with some form of explosion protection on the dust collector.

## Nederman Advantage

- No pressure loss across the system
- Start-up performed by Nederman technicians
- No third party required for maintenance
- Bottles ship pressurized, ready to use
- Designed by qualified engineers

## Function

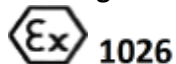
The bottle is mounted to the ductwork at a predetermined distance from the collector. When an explosion occurs, the detectors will read a rapid rise in pressure (DetEx) or the infrared spectrum from sparks (LumEx). This sends a signal to the controller which then sends a signal to the bottle to discharge, all happening in a matter of milliseconds. The extinguishing agent is a dry chemical powder distributed through a nozzle, spraying in a fan like manner, completely isolating the explosion and preventing it from moving up the ductwork.



1. Initiation
2. Detection of explosion origin
3. Activation of HRD active member
4. Explosion suppression



Markings



## Certification

This product is certified by **FTZU 06 ATEX 269X** by N.B. No. 1026 and Quality System approval by N.B. Certified according to **EN 15089**.

Dust $K_{st}$	Diameter
$\leq 200 \text{ bar}\cdot\text{m}\cdot\text{s}^{-1}$	$\leq 1200 \text{ mm}$
$\leq 300 \text{ bar}\cdot\text{m}\cdot\text{s}^{-1}$	$\leq 800 \text{ mm}$

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