

# Zerion<sup>TM</sup> AutoFog<sup>TM</sup> A-Series

## KEY ZERUST<sup>®</sup> OIL & GAS CLIENTS

- Conoco Philips
- Shell
- Petrobras
- EPPCO
- PEMEX
- Baker Hughes
- Schlumberger
- Halliburton
- FMC Technologies

## PRODUCT INFORMATION

Zerion<sup>TM</sup> AutoFog<sup>TM</sup> A-Series is a revolutionary Flash Corrosion Inhibitor (FCI<sup>TM</sup>) that diffuses in a matter of minutes to provide corrosion protection for bare metal surfaces. The rapid diffusing auto-fogging action allows corrosion inhibition of pipelines, voids and other enclosed spaces without the need for power sprays or fogging of powders.

- Largest protection volume of any diffuser in its class
- Combination of FCI and phased release Zerust<sup>®</sup> VCI's allows for long term protection of metal assets
- Effective in the presence of acid gas contaminant
- Diffusion rate of 1m every 30 minutes

The FCI action is especially important when welding shut voids and enclosed spaces where sweating due to trapped humidity inside the void can cause immediate corrosion.



## PRIMARY APPLICATIONS

Zerion AutoFog is ideally suited for prevention of corrosion in large metal voids and enclosures. AutoFog is especially effective when these enclosures contain pipelines, interstices, recesses, etc. which are difficult or impossible to access. AutoFog is an inexpensive and easy-to-implement alternative to Nitrogen purging in most cases. Typical applications include:

- **Mothballing of process equipment:** Boilers, sulfur recovery units, generators, turbines, heat exchangers, pipeline racks, etc.
- **Protection of sealed spaces:** Floating roof tank pontoons, offshore platform legs, ship blocks, etc.

## CREDENTIALS

- 30+ years of experience in corrosion prevention
- Client support in 50+ countries
- Member of API
- Chair key task group at NACE International

## USER BENEFITS

- Corrosion protection for voids and interstices that are impossible to protect with other methods
- Easy-to-use diffuser system
- No fogging equipment or labor required due to the rapid dissipating FCI™ action
- Vapor action ensures uniform distribution even on enclosed metal surfaces
- Protection from both flash and long-term corrosion for metal plates and welds with little/no surface preparation
- Does not leave a residue on electrical contacts
- VCI's offer non-permanent molecular layer protection that is safe and eco-friendly.

## PRODUCT USE

### Voids and Enclosed Spaces:

Zerion AutoFog diffusers can be placed inside a void or enclosure before it is welded shut or sealed. They can be fixed in place with a wire mesh basket. In certain applications the diffuser packaging may be slit and the Zerion powder poured into the void to provide protection.

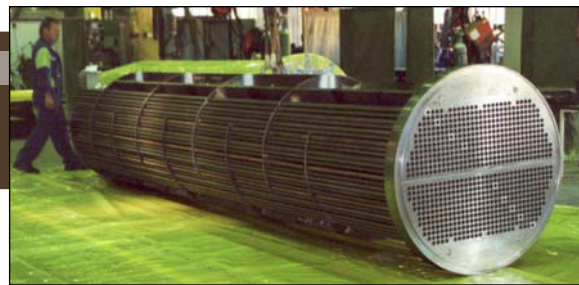
### Asset preservation:

The asset to be preserved should first be cleaned and then enclosed. The enclosure could be either a containment packaging of Zerust® corrosion inhibiting film or an integral self-sealing piece of equipment. Zerion AutoFog diffusers are then placed inside a void or enclosure before it is sealed.

## PRODUCT SIZES & SPECIFICATIONS

Name	Size*	Protection Volume
		Vapor Space Only
AutoFog A-10	100gm Sachet	2M <sup>3</sup>
AutoFog A-50	500gm Bag	10M <sup>3</sup>

\*Zerion AutoFog A-Series is light tan, off-white powder in a breathable sachet contained in an outer leakproof bag.



## DURATION OF PROTECTION

- 10+ years of effective service life in hermetically sealed enclosures.
- Note: If an enclosure is opened for inspection or maintenance, the AutoFog™ diffuser(s) may need to be replaced.

## EFFECTIVENESS

### SO<sub>2</sub> Acid Gas Test (4.5 ppm SO<sub>2</sub>)



Without  
Zerion™ AutoFog™

With  
Zerion™ AutoFog™

## PRODUCT PROPERTIES

- pH: > 8-10 for 1% solution
- Odor: Amine-like

## SAFETY & HANDLING

- Avoid contact with eyes and skin through use of safety glasses and gloves.
- Use a dust mask to prevent inhalation.
- See MSDS for more information

## STORAGE

- Shelf life is 36 months
- Store in a sealed container in a dry, ventilated warehouse without exposure to direct sunlight and temperature below 70°C (170°F)

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