

Zerion[™] AutoFog[™] A-Series

Corrosion Controlled. Costs Controlled.

KEY CLIENTS

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

CREDENTIALS

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

PRODUCT INFORMATION

Zerion[™] AutoFog[™] A-Series is a revolutionary **Flash Corrosion Inhibitor (FCI[™])** 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[®] 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

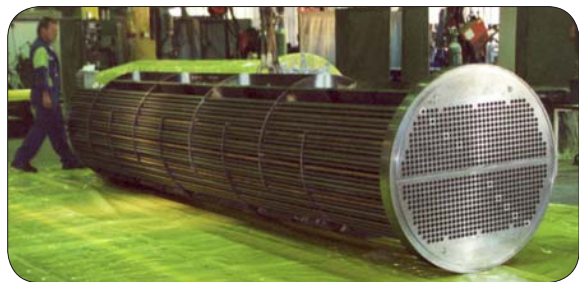
Zerion AutoFog is ideally suited for **prevention of corrosion** in **large metal voids and enclosures**. AutoFog is especially effective when these enclosures contain pipelines, interstices, recesses, etc. which are difficult or impossible to access. AutoFog is an inexpensive and easy-to-implement alternative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



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.

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.

PRODUCT SIZES & SPECIFICATIONS

Name	Quantity*	Protection Volume (Vapor Space Only)
AutoFog A-05	1 Sachet	0.8M ³
AutoFog A-10	2 Sachets	1.6M ³
AutoFog A-50	10 Sachets	8M ³

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

Contact Us:

Phone: +1 (763) 225-6600

email: info@zerust-oilgas.com

FAX: +1 (763) 225-6645

www.zerust-oilgas.com

4201 Woodland Road

P.O. Box 69

Circle Pines, MN 55014

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
- VCIs offer non-permanent molecular layer protection that is safe and eco-friendly.

EFFECTIVENESS

SO₂ Acid Gas Test (4.5 ppm SO₂)



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)