



## Technical Data Sheet (TDS)

### ASHAION® OX 134 CZ

Oxygen Scavenger (Carbohydrazide-based)

Application: High-pressure Boiler Water Treatment

#### 1. Product Description:

ASHAION® OX 134 CZ is a carbohydrazide-based oxygen scavenger designed for use in high-pressure boiler systems. It is a safer and more environmentally friendly alternative to hydrazine. This product not only effectively eliminates dissolved oxygen from feedwater, preventing corrosion, but also provides excellent passivation of metal surfaces by forming a protective magnetite layer.

#### 2. Features & Benefits:

- Completely free from hydrazine – safer to handle and store
- Effective at high temperatures and pressures
- Promotes rapid passivation of boiler metal surfaces
- Reduces corrosion and extends boiler life
- Compatible with other boiler treatment chemicals
- Low toxicity and environmentally compliant

#### 3. Typical Applications:

- High-pressure boilers in power plants
- Food industry boilers
- Refineries and petrochemical units
- Pulp & paper industries
- Industrial steam generation systems

#### 4. Technical Specifications:

| Parameter  | Value                                  |
|------------|--|
| Appearance | Clear, colorless to pale yellow liquid |

|                         |                                      |
|-------------------------|--------------------------------------|
| pH (1% solution)        | 8.0 – 10.0                           |
| Specific Gravity @ 25°C | 1.05 ± 0.02                          |
| Solubility in Water     | Completely soluble                   |
| Freezing Point          | < 5°C                                |
| Shelf Life              | 12 months when stored as recommended |

### **5. Dosage & Feeding:**

The exact dosage will depend on feedwater characteristics and oxygen levels. As a general guideline, 10–15 ppm of ASHAION® OX 134 CZ is required per ppm of dissolved oxygen.

It should be dosed continuously using a chemical dosing pump directly into the deaerator storage tank or boiler feed line.

### **6. Handling & Safety:**

- Use protective gloves, goggles, and suitable clothing when handling.
- Avoid contact with skin and eyes.
- Store in a cool, dry, and well-ventilated area away from heat and direct sunlight.
- Refer to the Safety Data Sheet (SDS) for complete safety and first aid information.

### **7. Packaging:**

Available in HDPE drums of 30 kg and 50 kg. Custom packaging available on request.

### **8. Storage & Shelf Life:**

Store in original, tightly closed containers.

Avoid freezing.

Shelf life is 12 months from the date of manufacture under recommended storage conditions.

### **9. Compliance:**

ASHAION® OX 134 CZ complies with international boiler water treatment norms and is manufactured in an ISO 9001:2015 certified facility.