



Technical Data Sheet (TDS)

Product Name: ASHAION® SC 121 P

Product Type: Scale & Corrosion Inhibitor (Powder)

Application: High-Pressure Boiler Water Treatment

Product Description:

ASHAION SC 121 P is a premium-grade powdered scale and corrosion inhibitor specially formulated for high-pressure boiler systems. It effectively controls scale formation, stabilizes pH, and inhibits corrosion by dispersing hardness salts and maintaining alkalinity balance. Its powder form allows easy transport and long-term storage.

Key Features & Benefits:

- Dual Action: Combines scale prevention and corrosion inhibition in one formulation.
- pH Control: Maintains optimal alkalinity and prevents acidic corrosion.
- Enhanced Performance: Effective in high-pressure and high-temperature boiler environments.
- Stable Powder Form: Long shelf life, non-hygroscopic, and easy to dose.
- Compatibility: Works well with other water treatment additives.

Applications:

- High-pressure boilers in thermal power plants, sugar mills, textile industries, and process industries.
- Steam generation systems where hardness and corrosion control is critical.

Physical & Chemical Properties:

Property	Value
Appearance	Free-flowing white powder
pH (1% solution)	10.0 – 11.5
Solubility	Completely soluble in water
Bulk Density	0.75 – 0.90 g/cm ³

Odor	Odorless
Packaging	25 kg HDPE lined bags or customized packs

Dosage & Feeding:

Dosage: Typically 50–150 ppm, depending on feed water quality and boiler pressure.

Feeding: To be diluted in water and dosed using a dosing pump or manually into the feedwater line or boiler drum.

Exact dosage should be determined based on system conditions and under technical guidance.

Handling & Storage:

- Store in a cool, dry, and ventilated area.
- Avoid contact with moisture to prevent caking.
- Use gloves and safety goggles during handling.
- Shelf life: 24 months from the date of manufacturing.

Safety & Precautions:

- Avoid inhalation of dust; use appropriate PPE.
- In case of contact with eyes or skin, rinse thoroughly with water.
- Refer to the MSDS for detailed safety instructions.

Compliance:

Manufactured in an ISO 9001:2015 certified facility.

Free from heavy metals and environmentally hazardous substances.

Technical Support:

For detailed application support, troubleshooting, or custom dosing recommendations, contact our technical service team at:

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