

ZI-CHEM 1770

Steam Boiler Scale & Corrosion Control

HIGHLIGHTS

ZI-CHEM 1770 a surface active organic agent has outstanding cleaning properties and guarantees the removal of any scale or corrosion contaminants by controlled blow downs. it contains a mixture of surface-active polyamines, volatile amines, and polycarboxylates that works in synergetic way. Free of phosphates and harmful hydrazine.

ZI-CHEM 1770 meets and exceeds Recommendations R54/CEOC/CP84 DEF requirements for boiler and boiler feed water (CEOC – Association of European Control Authorities)

Advantages:

- Use of a combination of environmentally safe agents in a single product
- Hydrophobic film protects excellent against corrosion in the entire water-steam circuit
- Heat exchanger surfaces stay clean
- Formation of calcium and mineral salt deposits in the boiler prevented
- Gentle removal of old deposits
- Dispersal of dirt particles, mineral salts and metallic oxides
- Alkalization of the entire water and steam circulation, particularly recommended for hot water systems
- More efficient heat conduction safes energy
- No increase of salt content reduces blow downs

TYPICAL PROPERTIES

- Appearance: Yellowish transparent liquid
- Specific gravity: 1.05 ± 0.05 at 20°C
- pH (neat) $12.0 \pm 0.5^{\circ}\text{C}$
- Odour: Amine like
- Freezing point: -1°C

PRIMARY APPLICATIONS

ZI-CHEM 1770 dosage for steam systems;

Hardness of Feed water	Qty per m3 Make up	Content in Boiler Water	Content in Condensate
	Standard Dosage		
0.01 mmol/l	20 – 5-0 g	2 – 10 mg/l	3 – 5 mg/l

ZI-CHEM 1770 dosage for hot water systems;

The determination of the proper dosage in hot water systems depends on the individual situation. ZI-CHEM 1770 is applied in the main line.

Complex networks require application at several points.

FEEDING & CONTROL

ZI-CHEM 1770 should always be applied at the concentrations recommended by our technical representative. We recommend the ZI-CHEM 1770 solution to be diluted with cold treated water and pumped into the feed water after thermal de-aerator and before it reaches the feed water pump (90 % of water max).

THE BENEFITS

- Reduced total fuel cost
- Increased steam production
- No off-line cleaning required
- Extended equipment life
- Suitable for high pressure boiler up to 1,200 psig

COMMON APPLICATIONS

- Power generation facilities
- Petrochemical
- Food industries
- Pulp & Paper processing
- Timber processing

PACKAGING

- 30kg pails
- 210kg drums
- 1,000kg polyethylene containers

HANDLING & SAFETY

ZI-TECHASIA maintains a database of material safety data sheets (MSDS) on all our products. These contain health & safety information to assist in the safe and appropriate chemical handling, ensuring the protection of personnel.

