

# ASHAION

## Boiler Water Treatment

### ASHAION - 450

#### MULTI FUNCTIONAL BOILER TREATMENT

##### ● PRODUCT DESCRIPTION

ASHAION - 450 is a multicomponent boiler feed water treatment, designed for small to medium boilers where convenience and simplicity are required. It is especially suitable for limited attendance boilers for food-grade applications.

ASHAION - 450 range of products, are designed to suit those boiler operations where convenience is required, where expertise in boiler operation is low or where only a limited attendance by the boiler operator is to be expected.

The answer to these situations is a multi-functional product, which is able to be dosed, continuously and automatically.

ASHAION - 450 can be used for different boiler pressures, and different hardness feed water and a possible need for a food-grade product.

##### ● PHYSICAL PROPERTIES

Form	:	Solid
Colour	:	Off white powder
Specific Gravity @23 <sup>0</sup> C	:	1.21
pH (Neat)	:	14.1
pH (1% solution)	:	12.2
Flash Point (PMCC): C	:	None

##### ● FEATURES, BENEFITS AND VALUES

Attached is a table summarising the unique features and benefits of ASHAION - 450

FEATURES	BENEFITS	VALUES
The Polymer in ASHAION - 450 will provide greatly improved transport of hardness, silica and iron through the boiler.	Improves boiler cleanliness	Energy savings through increased heat transfer efficiency. Longer equipment life. Reduced likelihood of failure and down time.
Solid Product, readily soluble in water in all proportions	Minimal handling easy to package and dose.	Safer for employees. PORTA - FEED benefits; consistent, efficient dosing.
Multi functional Product	Reduced number of products on site.	Reduced ordering equipment and inventory costs.

##### ● PRODUCT DOSAGE, FEEDING PROGRAM COMPATIBILITY

ASHA RESINS engineer's will establish the exact requirement to maintain boiler parameter within limit.

It is recommended to feed a 10 % solution of ASHAION - 450 however, if necessary dilution with softened water or cooled condensate may be made.

ASHAION - 450 should be fed continuously into the feedwater line. Any interruptions in feed may result in scale formation in the boiler and reduce heat transfer efficiency as well as increasing the likelihood of tube failure. The solution should be fed through a stainless steel quill which extends beyond the internal surface of the feed water line to ensure the product is well distributed in the boiler feed water. ASHAION - 450 should be fed via a closed feed system (a closed feed system being defined as a system in which fluid is moved from a closed storage vessel into a treated media without exposure to the atmosphere), except through normal venting or pressure relief devices.

When starting a ASHAION - 450 program, the system should be clean. The use of ASHAION - 450 as a on-line cleaning agent is not recommended even though it exhibits a moderate clean-up ability. Extremely dirty boilers should be acid cleaned before the start of any new programme to prevent sloughing of scale which can block boiler tubes.

ASHAION - 450 contains sufficient antifoam for most situations however, in some cases additional antifoam may be needed.

##### ● MATERIALS COMPATIBILITY

Compatible	:	In-Compatible
Stainless Steel 304	:	Aluminium
Stainless Steel 316	:	Brass
Polyethylene	:	Copper and copper alloys

##### ● PACKING

ASHAION - 450 is available in 25 Kg and 50 Kg. HDPE Bottles.