

Boiler Scale Remover is a complete multifunctional product for use in hot water, cooling and industrial water systems.



RAW's Boiler Scale Remover is all that is needed for optimizing operations and simplifying boiler maintenance.

RAW Biochem Is

Readily Biodegradable
Non-Reactive
Non-Toxic
Non-Corrosive
Non-Hazardous
Not Flammable
Contain No VOC's
Hypo-allergenic

**RAW Biochem Products
Do NOT Contain**

Petroleum Distillates
Glycol Ethers
Caustics
Ozone Depleting Agents
Nonylphenols
Endocrine disruptors
Xenoestrogens

www.rawbiochem.com

RAW's Boiler Scale Removal is formulated to reduce efficiency losses caused by scale, corrosion, dissolved oxygen and pitting in water systems.

This product represents a balanced internal boiler water treatment program which addresses the following problems:

- Control or removal of calcium/magnesium hardness through external (*mechanical*) pre-treatment or internal (*chemical*) treatment.
- Can be formulated to en-capsulate lime particles with a fatty acid suspension which causes lime and minerals to flocculate and be filtered out of the system, or it can be made to suspend minerals and imbue them into the system water.
- Can control calcium and magnesium hardness by encapsulating either through external pre-treatment or internal treatment.
- Maintains proper levels of sludge conditioners. Present or precipitated suspended solids remain fluid so they can be properly blown down.
- Controls dissolved oxygen through external pre-treatment or through the use of a suitable oxygen scavenger.
- Provides outstanding protection from oxygen corrosion along with excellent feed-water and boiler system passivation. It is as effective as hydrazine without the associated safety hazards and handling precautions. Can be used in systems of any pressure up to and including supercritical (220 bar g).
- Controls pH to allow needed chemical reactions to occur and to allow proper phosphate precipitation reactions.

TECHNICAL DATA SHEET

Description

RAW's Boiler Scale Remover is a concentrated blend of readily biodegradable ingredients which revert back to their original state when in contact with naturally occurring micro-organisms, oxygen and water.

In its diluted form, product is compatible with all surfaces and will not harm or damage substrates.

Physical State

Liquid

Colour	Yellow or Amber
Odour	Mild Soapy Pine Odour
pH	3 – 3.4
Base	Plant Extracts
Persistence & Degradability	Readily Biodegradable

Directions for Use

Product formulation is a super-concentrate and use rates will vary substantially per conditions.

Product use strategy is dependent on:

1. Dilution:

- Dilution rates will vary depending on the degree and depth of scale requiring removal.
- Always test dilution strength first
- Optimum dilution temperatures are greater than 37°C (100°F). Product performance increases with hotter temperatures.
- Product will perform in temperatures ranging up to steam grade of 218°C (425°F).
- Dilute with 1-part product to 20 & up to 100 parts water.
- Dilute at 100 parts water to start and add product as needed up to 20 parts water to 1-part product.

2. Application Method:

- Add directly to boiler feed water.

Caution

This product can produce significant amounts of foam. The higher the concentration being used the greater the propensity to foam.

An anti-foam product such as RAW's Defoamer may be necessary when using Boiler Scale Remover.

Contact your RAW representative or distributor for further assistance in determining optimum results for your application.