

Water Treatment.

BOILER TREAT COMBI

Complete Boiler Protection Through Alkalinity Control, Scale Prevention, Corrosion Inhibition, Sludge Conditioning & Condensate Protection..

DESCRIPTION & APPLICATIONS:

A a concentrated liquid boiler water treatment specifically formulated for low and medium pressure marine boiler systems operating up to 35 bar.The product combines alkalinity builders, organic corrosion inhibitors, advanced polymeric scale conditioners and sludge dispersants in a single treatment programme. The formulation maintains optimum boiler water chemistry, prevents scale formation, minimizes corrosion, promotes clean heat transfer surfaces and protects condensate return systems through continuous operation. Advanced polymer technology modifies hardness crystal growth, producing non-adherent particles that remain suspended and are easily removed through routine blowdown operations. Simultaneously, corrosion control agents form a protective layer on metal surfaces, reducing boiler corrosion and extending equipment life.

FEATURES & BENEFITS:

- Multifunctional boiler treatment in a single product.
- Controls scale, corrosion and sludge deposits.
- Maintains optimum boiler pH and alkalinity.
- Prevents under-deposit corrosion.
- Conditions hardness salts for easy blowdown removal.
- Protects condensate return systems.
- Improves heat transfer efficiency.
- Reduces fuel losses associated with scale deposits.
- Extends boiler and condensate system life.
- Liquid formulation for easy dosing and handling.
- Suitable for manual and automatic dosing systems.
- Applicable to boilers operating up to 35 bar pressure.

APPLICATIONS:

Suitable for:

- Auxiliary marine boilers.Steam generators. Feedwater systems. Condensate return systems Condensate return systems. Dual-pressure boiler systems. Low and medium pressure boilers up to 35 bar.

SHERAN CHEMICAL (UAE) |SHERAN HELLAS CHEMICAL (Greece)

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Manufacturing & Sales: Fujairah, UAE | Athens, Greece

Marine and industrial chemicals supplier worldwide.

CERTIFICATIONS & MARINE SUPPLY NETWORKS

ProcureShip SHIPSERV ISO 9001:2015 COMPANY

PS ID: 14754 TN-315946

DOSAGE & CONTROL PROGRAM:

Initial Dosage

System Condition	Dosage Rate
New Boiler Charge	0.4 L/m³ of boiler water capacity

Allow the boiler water to circulate for 24 hours before testing P-Alkalinity and chloride levels. Adjust dosage as necessary to achieve recommended control limits.

TYPICAL PROPERTIES:

Property	Typical Value
Appearance	Clear Amber Liquid
Odour	Mild Characteristic
pH (Concentrate)	11.0 - 13.0
Specific Gravity @ 25°C	1.10 - 1.20
Solubility	Completely Miscible in Water
Flash Point	Non-Flammable

TYPICAL PROPERTIES:

Observation	Recommended Action
P-Alkalinity Below Control Range	Increase Boiler Treat COMBI dosage
Chlorides Above 90 ppm	Carry out top and bottom blowdown
Hardness Detected	Investigate feedwater contamination
Condensate pH Below 8.0	Increase condensate treatment
Low Oxygen Scavenger Residual	Increase oxygen scavenger dosage

Daily Maintenance Dosage

Treatment Requirement	Dosage Rate
Normal Operation	Minimum 0.2 L/day
High Makeup Water	Increase based on test results
High Blowdown Rate	Increase based on test results

Actual dosage requirements depend on feedwater quality, system volume, steam production, and condensate return percentage.

RECOMMENDED WATER CONTROL LIMITS:

Parameter	Recommended Range
Boiler pH	10.5 - 11.0
P-Alkalinity	100 - 200 ppm as $CaCO_3$
Ideal P-Alkalinity	150 ppm
M-Alkalinity	Less than 2 × P-Alkalinity
Boiler Chlorides	Maximum 90 ppm
Condensate pH	8.0 - 10.0
Oxygen Scavenger Residual*	0.8 - 1.5 ppm
Boiler Hardness	Nil Detectable

When used together with an oxygen scavenger treatment.

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STORAGE AND HANDLING:

For complete boiler system protection, BOILER TREAT COMBI may be used in conjunction with:

Oxygen Scavenger

Condensate Control

Hardness Control

BWT One Shot

STORAGE AND HANDLING:

Store in tightly closed original containers in a cool, dry, and well-ventilated area away from direct sunlight and excessive heat.

SHELF LIFE:

24 Months from date of manufacture when stored under recommended conditions.

STANDARD PACKING:

- 25 L HDPE Containers

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