



Star International

Worldwide marine and offshore services

Marine-grade chemicals and test kits

Practical solutions to the toughest hygiene, fuel and water challenges at sea



Cleaning & maintenance



Biological products



Endosan disinfectant



Water treatments



Fuel treatments



Testing kits



Marine chemical products and test kits

Marine systems run under constant stress from heat, vibration, contamination and variable water quality. Using the right chemical treatments is essential for controlling corrosion, scale, microbial growth and fuel instability: common triggers of unplanned maintenance.

Star International supplies a focused range of marine-grade chemicals, test kits and accessories that meet IMO, SOLAS and class requirements. Everything is fully documented, correctly labelled and packaged to IMDG standards. With depots across the UK, we support rapid delivery to all major commercial ports.

Why our chemicals make a difference

Reliable products cut down unplanned work. Engines stay cleaner, filters last longer and water systems stay safer for crew. Accurate test kits help crews stay compliant without unnecessary retesting or guesswork. Choosing well doesn't just protect equipment: it keeps your operations smooth and predictable.

Standards you can trust

Star International operates to the highest industry standards and holds both ISO 9001 Quality Management and ISO 45001 Occupational Health and Safety certifications. All of our products are supplied in line with IMO, SOLAS and class requirements.



Certificate No. 8210



Certificate No. OH 1430

Star International has cleaner options to support your ESG goals



Our range includes biodegradable cleaners and EndoSan, a chlorine-free disinfectant, helping you to lower environmental impact while maintaining strong system performance.

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Cleaning &
maintenance



Biological
products



Endosan
disinfectant



Water
treatments



Fuel
treatments



Testing
kits



Star Traffic Film Remover

- Concentrated, heavy-duty detergent for pressure and steam cleaning of vehicles, plant and offshore equipment. Biodegradable and safe in use, removes oil, grease and grime.
- Variants: 25 ltr Light Duty (00910001); 25 ltr Heavy Duty (00910094)

Star Air Cooler Cleaner

Solvent emulsion cleaner for diesel engine air coolers, scavenging air systems and turbocharger compressor sides. Removes oil, grease and carbon deposits without harmful residue.

- 25 ltr (00910013)

Star Alkaclean Tank Cleaner

- Heavy duty water-based alkaline cleaner for cargo tanks, double bottoms and engine room surfaces. Removes mineral oils, fats and sludge by injection or circulation.
- 25 ltr (00910037)

Star Alkaline HD

- Alkaline degreaser for removing vegetable/animal oil residues in cargo tanks and black-to-white cleaning. Also used for boiler furnaces and cargo holds.
- 25 ltr (00910107)

Star Aquastrong

- Heavy-duty alkaline cleaner for sludge, soot, carbon, greases, oils, waxes and grime. Biodegradable and solvent-free; safe on epoxy coatings.
- 25 ltr (00910026)

Star Bow and Stern

- Biodegradable degreaser combining surfactants, alkalis and solvents. General-purpose cleaner for soiled hard surfaces, reducing the need for multiple separate products.
- 25 ltr (00910012)

Star Carbon Clean LT

- Micro-emulsion cleaner for carbonaceous deposits on heat exchangers, injectors, pistons, valves and filters. Non-corrosive, safe on all metals, works by soak or circulation.
- 25 ltr (00951079)

Star Carbon Remover

- Two-phase solvent system for baked-on carbon and petroleum residues. Minimises vapour losses and reduces corrosion risk during soaking.
- 25 ltr (00910014)

Star Cement Remover

- Hydrochloric acid cleaner for cement and mortar deposits on tanks, decks and equipment. Biodegradable, fast-acting and safe on epoxy coatings.
- 25 ltr (00910087)



Star Clean OSD

- Biodegradable, hydrocarbon-based dispersant with low toxicity. Effective for oil spillages at sea, in harbours and on land.
- 25 ltr (00910038)

Star Cold Wash

- General-purpose cleaner for removal of dirt, oil and grease from decks, bulkheads and machinery. Safe to use on most painted and metal surfaces.
- 25 ltr (00910009)

Star Defoamer

- Concentrated silicone-based antifoam agent for cleaning and water treatment systems. Rapidly reduces and prevents foam build-up.
- 25 ltr (00910041)

Star Electrosolve

- Refined solvent cleaner for electric and electronic components. Leaves no residue and is safe on metals, plastics and painted surfaces.
- 25 ltr (00910024)

Star Engineer's Hand Cleaner

- Heavy-duty hand cleanser containing citrus grease solvers and perlite beads. Removes ingrained dirt and oils without harming skin.
- Variants: 1 x 5 ltr (00910022); 4 x 5 ltr (00910105)

Star Enviroplus

- Concentrated water-based degreaser and cleaner. Non-flammable and biodegradable, suitable for engine rooms and machinery spaces.
- 25 ltr (00910045)

Star Foam Agent

- Concentrated foaming additive for use with alkaline cleaners. Produces stable foam to increase contact time on vertical surfaces.
- 25 ltr (00910021)

Star Hand Sanitiser Liquid

- Fast-drying liquid hand sanitiser. Contains alcohol for effective protection against bacteria and viruses.
- 5 ltr (00910199)

Star High Pressure (HP) Wash

- Concentrated alkaline cleaner for use in high-pressure washing machines and scrubbers. Removes oil, grease, dirt and carbon deposits effectively.
- 25 ltr (00910020)



Star Mud and Silt Remover

- Prevents deposition of mud, silt and sediment in ballast tanks, cooling systems and pipelines. Fully biodegradable and free from acids, alkalis or solvents.
- 25 ltr (00920032)

Star Multi Purpose Degreaser

- Concentrated heavy-duty degreaser for use with floor scrubbers, high-pressure cleaners and general cleaning. Removes oil, grease and dirt from hard surfaces.
- 25 ltr (00910023)

Star Phosphoric Acid 75%

- 75% phosphoric acid solution for controlled descaling and rust removal. Preferred where a milder mineral acid is required.
- 25 ltr (00930052)

Star Powder Acid

- Dry acid cleaner for removal of rust and scale from boilers, condensers, evaporators and cooling systems. Contains inhibitors and a colour indicator for safe, effective use.
- 25 kg (00910015)

Star Power Acid Descaling Liquid

- Concentrated inhibited acid for rapid removal of water scale, rust and concrete. Hydrochloric acid-based with inhibitors to protect ferrous metals and copper alloys.
- 25 ltr (00910016)

Star Quick Break Degreaser

- Low-toxicity degreaser formulated for use in oil-water separators and bilge cleaning. Separates oil for easy removal without emulsifying.
- 25 ltr (00910092)

Star RO Control 30

- Formulated to control scaling in reverse osmosis plants. Prevents build-up of calcium carbonate, calcium sulphate and other salts.
- 25 ltr (00910096)

Star Rust Converter (Vactan)

- Water-based rust converter and primer. Converts rust to a stable surface and leaves a primed layer ready for coating.
- Variants: 5 ltr (00910004); 25 ltr (00910005)

Star Rust Off HD

- Acid-based cleaner for rust removal on steel and ferrous metal surfaces. Inhibited formulation protects base metal during descaling.
- 25 ltr (00910017)



Star Seaclean

- Multipurpose tank cleaner for removal of mineral oil cargo residues. Also used in double bottoms and for general engine room degreasing.
- 25 ltr (00910036)

Star Seaclean Extra

Stronger formulation of Seaclean for more demanding cleaning jobs. Used for tank cleaning and heavy-duty degreasing.

25 ltr (00910039)

Star Separator Disclean

- Cleaner formulated for oil/water separators and bilge systems. Removes oil, sludge and other contaminants without harming coatings.
- 25 ltr (00920010)

Star Soot Deposit Remover

- Chemical additive for boilers and diesel engine exhaust systems. Prevents and removes soot deposits, improving efficiency.
- 25 ltr (00920006)

Star Teak Brite

- Cleaner and brightener for teak decks and wood surfaces. Restores natural colour and appearance.
- 5 ltr (00920030)

Star Wax and Tar Remover

- Solvent-based cleaner for removing wax, tar and bitumen residues. Safe on most painted and metal surfaces.
- 25 ltr (00920004)

Star XDS 1220

- Extra duty solvent degreaser for engine parts, bilges and machinery. Powerful blend for heavy oil and grease residues.
- 25 ltr (00910002)



Star Enzyme BOE Odour Control

- Specialised biological preparation for elimination of odour in marine waste collection areas, rest rooms and galleys. Water-based and pH-neutral, binds odour-causing molecules rather than masking them.
- Variants: 6 ltr (**00950014**); 20 ltr (**00950013**)

Star Enzyme Bio Toilet Cleaner

- Unique biological preparation containing specialised bacterial strains, biodegradable low-foaming surfactants and anti-foam agents for cleaning toilets, sinks, showers and similar areas. Breaks down solid material downstream to prevent odours and avoid foam build-up.
- 12 x 1 ltr (**00950011**)

Star Enzyme Digester

- Biological cleaning product that digests fats, greases and organic waste materials to keep onboard systems clear and free-running. Designed for dosing during longest periods of inactivity so enzymes can work effectively.
- 25 ltr (**00950012**)

Star Enzyme Multi Cleaner

- Biological preparation for cleaning and odour reduction on a variety of hard and soft surfaces. Safe, biodegradable, replaces harsh chemical cleaners.
- 100 x 50g sachets (**00940018**)

Star All In One DPSC (Drainpipe And Sewage Cleaner)

- Comprehensive biological solution tackling both drainpipe blockages and sewage waste; uses natural enzymes to break down organic matter and grease, preventing blockages and odours. Ideal for vessels; ensures efficient drainage and environmentally friendly waste treatment.
- 4 kg solutub (**00950009**)

Star Enzyme Sink Cleaner

- Biological formulation ideal for restoring flow in drains clogged by grease, treating clogged drain lines, grease traps and floor drains; reduces unpleasant odours significantly.
- 6 x 1 ltr (**00950016**)

Star Enzyme Toilet Descaler

- Biological preparation in soluble sachet form: contains organic acids and naturally-occurring bacterial strains designed to descale toilets and system pipework; removes both inorganic and organic build-up.
- 100 x 50g sachets (**00950015**)

Water testing and treatment



Stay in control of water quality – from routine testing to system-wide treatment

Whether you're carrying out daily checks on potable water, managing boiler feedwater, maintaining cooling systems, or dealing with contamination issues, we provide everything you need to keep your vessel compliant, efficient, and protected.

Testing: Complete test kits, individual reagents, test strips and consumables for onboard use – each giving rapid, easy-to-understand results with colour-change indicators, titration methods, or dip-strips.

Treatment: EndoSan silver stabilised hydrogen peroxide for potable water disinfection, plus a full range of marine water treatment chemicals covering boiler conditioning, cooling system protection, oxygen scavengers, and anti-foulants.

Services: Laboratory analysis, shock dosing, and freshwater safety plan support when you need independent verification or professional intervention.

Why water quality management matters

Water quality directly impacts crew safety, equipment performance and regulatory compliance. Untreated or contaminated water can spread infections rapidly, damage critical systems, and create serious operational and environmental risks. Regular testing combined with effective treatment keeps problems from developing – and with Star's proven products and services, you get consistent, dependable results.

End-to-end support

From test kits to treatment chemicals to laboratory analysis and compliance documentation, we help you manage water quality across every stage.

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EndoSan – reliable disinfection at sea

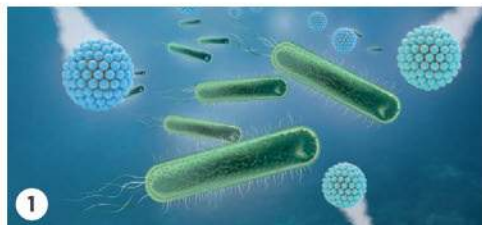
EndoSan provides powerful disinfection for key marine systems, including potable water, wastewater, cooling, and food preparation areas.

It eliminates biofilm and harmful microorganisms, protecting crew health and supporting compliance. Non-corrosive and residue-free, it breaks down into only water and oxygen, making it safe to use onboard and environmentally responsible.

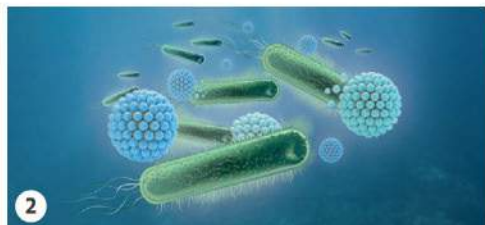
Its proven versatility and reliability make EndoSan a trusted choice for vessels operating in demanding marine conditions.



How Endosan works - a closer look



1 A typical bacterium naturally emits a negative charge. EndoSan is attracted by this charge to the site.



2 In catalase producing bacterium the presence of EndoSan inhibits the defence mechanism, allowing the powerful free hydroxyl radicals to attack the cell membrane.



3 These free hydroxyl radicals penetrate the membrane and destroy the bacterium. Once killed the bacterium no longer emits a negative charge.



4 EndoSan is now attracted to the next bacteria site emitting a negative charge. Silver ions re-stabilise with excess hydrogen peroxide molecules to repeat the process.

Representation for illustrative purposes only



- 00951020** - Star EndoSan3 1 ltr Spray
00951019 - Star EndoSan3 1 ltr
00951018 - Star EndoSan5 5 ltr
00951001 - Star EndoSan50 50 ltr



00951006

Star EndoSan Peroxide Test Strips (0-100ppm) 50 pack

00951007

Star EndoSan Peroxide Test Strips (0-1000ppm) 50 pack



Dosing Equipment

Dosing systems

GUARDIAN PULSE PLUS DOSING SYSTEM (excludes water meter) 00951021

Pulse fed, proportional dosing system with additional inbuilt traffic light chemical indicator system, lance, cable, bund, pump and associated ancillary equipment.

This dosing system is a true 'plug and play' system which doses proportionally to the water used via direct injection. It has the added ability to monitor the EndoSan levels in the drum and to warn on low readings. This is achieved using a traffic light system, cable and lance which is placed inside the EndoSan drum. The beta 4 pump is manufactured to a very high standard and comes with de-gassing head at the rear. The system is all mounted on a bespoke designed bund, stress tested and palletised ready for delivery to site.

GUARDIAN SMART DOSER PLUS SYSTEM (excludes water meter) 00951022

Guardian pulse plus dosing system and Smart Dulcometer (DACA) monitoring and communication system.

The Smart doser plus is a fully automated 'smart monitoring' and dosing system which enables full control of your EndoSan dosing and automated adjustment via H_2O_2 probes. These probes take samples of the water and test for Hydrogen Peroxide strength. Dependant on the dose rate the system is programmed to, the smart doser will auto adjust the pump up or down to the required levels ensuring a level concentration throughout the system.

This system is perfectly suited to recycled water systems.

BMS/PID plug in available



Guardian Pulse Plus



Guardian Smart Plus



GUARDIAN DOSING SYSTEM INSTALLATION ONLY

00951023

Installation, calibration and commissioning by engineer on site

GUARDIAN DOSING SYSTEM INSTALLATION AND SERVICE PACK

00951024

Installation, calibration and commissioning by engineer on site,
1 extra visit to site within 12 months, 2 year extended warranty

WATER METERS

Guardian 1" - 00951025 Contacting head water meter k=10
Suitable for horizontal installation, Litres per pulse: 10, Suitable
for flow rate between 208L/hr & 3500L/hr, Max working temp. 50°C

Guardian 1½" - 00951026 Contacting head water meter k=10
Suitable for horizontal installation, Litres per pulse: 10, Suitable
for flow rate between 800L/hr & 10,000L/hr, Max working temp. 50°C

Guardian 2" - 00951027 Contacting head water meter k=10
Suitable for horizontal installation, Litres per pulse: 10, Suitable for
flow rate between 1,050L/hr & 15,000L/hr, Max
working temp. 50°C

Guardian 3" - 00951028 Flanged contacting head water meter k=100
Suitable for horizontal installation, Litres per pulse: 100, Suitable for
flow rate between 8,000L/hr & 40,000L/hr, Max working temp. 50°C

DRUM PUMPS

00951029 5L drum pump

00951030 10L drum pump

00951032 20L drum pump



Guardian Water Meter



Drum Pumps

Freshwater testing and shock dosing with EndoSan

Keeping your water systems clean and compliant

Maintaining potable water quality requires regular testing to identify contamination before it becomes a problem, and shock dosing to eliminate biofilm and reset your system when routine treatment isn't enough.

We provide independent laboratory testing for Total Viable Count (TVC) and Legionella, giving you the documented proof you need for regulatory compliance. When tests reveal contamination or your system shows signs of biofilm buildup, our shock dosing service strips everything back to a clean baseline.

What is shock dosing?

Shock dosing is an intensive disinfection treatment for freshwater and potable systems – think of it as a deep clean for your entire water network. It's essentially the equivalent of super-chlorination, without using chlorine.



The process involves temporarily raising silver stabilised hydrogen peroxide levels throughout the system to attack biofilm, bacteria, and other contaminants that build up in tanks and pipework over time. Unlike routine dosing (which maintains day-to-day water quality), shock dosing is designed to reset the system and eliminate established contamination.

Why do vessels need shock dosing?

Even well-maintained freshwater systems develop biofilm – a sticky layer of bacteria and microorganisms that clings to tank walls and pipework. Standard dosing levels aren't strong enough to break it down, which means:

- Bacteria can multiply within the biofilm
- Water quality deteriorates
- Legionella and other pathogens can take hold
- You're not compliant with hygiene regulations

Regular shock dosing (typically annual or bi-annual) keeps systems clean and prevents these problems from developing.

The EndoSan shock dosing procedure

Our engineers follow a thorough seven-step process:

1. **Initial testing** - We take hot and cold samples (for example, from the bridge and galley) to establish TVC and Legionella levels.
2. **Dosing** - We calculate the correct concentration of EndoSan for your system size and dose all freshwater tanks and pipework. Freshwater (FWT) tank surfaces can also be treated directly if needed.
3. **Level testing** - Using test strips, we check every outlet onboard to confirm the disinfectant has reached the full system.
4. **Soaking period** - The chemical is left for between 8 to 24 hours to attack biofilm and bacteria throughout the system.
5. **System flushing** - We run water through every outlet to completely flush the system and bring chemical levels back down to safe ingestion levels.
6. **Final testing** - Another round of test strips confirms the peroxide concentration is at the correct constant dosage level for safe use. We then again take hot and cold samples to determine TVC and Legionella levels are safe.
7. **Laboratory analysis** - All water samples are taken for independent testing by an approved lab, giving you documented proof of water quality.
8. **Guidance and handover** - We provide dosing schedules and advice to help your crew maintain system health until the next shock dose.

001580071: Drinking Water Analysis (TVC & Legionella)

Freshwater Safety Plan

To comply with the Maritime Labour Convention (2006), vessels require a Freshwater Safety Plan. We create vessel-specific plans covering your entire water supply chain from loading to delivery at the tap, including system assessment and hazard analysis, management plan and control measures, monitoring and control scheme, and annual review.

We can incorporate your FWSP into our management service, monitoring and reviewing your testing regime to keep you compliant with MLC 2006 requirements. This gives you peace of mind that testing is being carried out correctly, with consumables supplied as needed. We also support other onboard testing requirements, such as confirmation of oil-in-water contamination in ballast water systems.



Sodium Bisulphite 38% Solution (23 SO₂)

- Based on food-grade sodium bisulphite for simple, effective de-chlorination of ballast and wastewater. Also acts as a preservative for RO systems.
- 25 ltr (00910086)

Star Alka Boiler Treatment

- Concentrated liquid alkaline product providing the alkalinity boiler chemistry depends on. Helps precipitate hardness salts, neutralise acidity, and support efficient blowdown.
- 25 ltr (00950033)

Star Alkalinity Control

- Formulated alkaline concentrate to maintain correct boiler alkalinity and support hardness control. Reduces maintenance, keeps silica in suspension, and extends component life.
- 25 ltr (00950006)

Star Anti Foulant Plus

- Liquid treatment to prevent marine growth fouling seawater systems. Provides dispersant and filming corrosion protection in static and flowing systems.
- 25 ltr (00950002)

Star Autotreat 22372

- All-in-one boiler water treatment blend combining alkalinity builders, phosphate hardness control, oxygen scavenger and dispersant. Keeps heating surfaces clean and supports peak efficiency.
- 25 ltr (00950068)

Star Boiler Liquid Coagulant

- Colourless liquid sludge conditioner to prevent adherent deposits and coagulate small oil contamination in boilers. Keeps sludge dispersed for easy removal by blowdown.
- 25 ltr (00950037)

Star Boiler Water Conditioner

- Dry "one-shot" conditioning treatment with alkaline salts, inhibitors and dispersants for ship boilers. Promotes protective films, suspends sludge, and supports efficient operation.
- 25 kg (00951072)

Star Condensate Control

- Concentrated volatile amine neutraliser to prevent acid corrosion in condensate and feedwater lines. Maintains alkaline conditions and recycles with steam for economical dosing.
- 25 ltr (00910047)

Star Cooltreat

- Cooling-water corrosion inhibitor and conditioner for closed systems. Helps protect mixed metallurgy and maintain heat-transfer performance.
- 25 ltr (00950003)

Star Engine Water Treatment (TRAC118)

- Nitrite-based corrosion inhibitor for closed cooling systems, effective in high heat-flux conditions. Compatible with uninhibited glycol antifreezes.
- 25 ltr (00910102)



Star Evaporator Treatment

- Polymer additive to prevent carbonate and sulphate scale formation in evaporators. Keeps precipitates dispersed for removal with blowdown and remains stable at high temperature.
- 25 ltr (**00910040**)

Star One Shot BWT

- Single-shot liquid blend for smaller boilers and economisers. Combines alkalinity builders, oxygen scavenger and sludge conditioner.
- 25 ltr (**00950005**)

Star Organic Inhibitor

- Nitrite and borate corrosion inhibitor for recirculating cooling systems. Forms a stable microfilm, controls deposits, and is compatible with common non-metals.
- 25 ltr (**00950001**)

Star Oxygen Control (ELIMIN-OX)

- Oxygen scavenger for boiler feedwater systems to prevent oxygen corrosion. Used as part of a coordinated boiler programme.
- 25 ltr (**00950036**)

Star Oxygen Control Cat Sulphite 37% Liquid

- Catalysed sodium sulphite oxygen scavenger for rapid oxygen removal in boiler systems. Also useful for chlorine removal in treated waters.
- 25 ltr (**00920035**)

Star Oxygen Scavenger 72120 (DEHA)

- DEHA-based scavenger providing oxygen control and passivation in boilers and condensate systems. Does not add TDS and forms protective oxide films.
- 25 ltr (**00951071**)

Star Oxytreat 77211

- Fast-acting oxygen scavenger designed for boiler feedwater treatment, helping to control dissolved oxygen and reduce the risk of corrosion.
- 25 ltr (**00920025**)



pH test strips

When you need quick results, test strips deliver. Simple dip-and-read technology gives you accurate readings for pH levels – no mixing, no waiting, no specialist equipment required.

Ideal for routine monitoring and rapid troubleshooting, our test strips cover multiple measurement ranges to suit different water systems and treatment levels. Compact and easy to store, they're perfect for keeping on hand across multiple locations onboard.



pH Test Strips (4.5–10, 100) – 00960175

pH indicator strips covering the 4.5–10 range. Supplied in 100-strip packs.

pH Test Strips (7–14, 100) – 00960176

High-alkaline pH strips covering 7–14. Supplied in 100-strip packs.

pH Test Strips (0–14, 100) – 00960177

Universal pH test strips with full-range coverage. Supplied in packs of 100.

pH Test Strips (5–9, 100) – 00960178

Narrow-range pH test strips for general water analysis. Supplied in 100-strip packs.

pH Test Strips (7–10, 100) – 00960179

Narrow-range alkaline pH test strips (7–10). Supplied in 100-strip packs.



Boiler and cooling water testing

Boiler and cooling water systems require careful monitoring to prevent costly damage. Poor water quality leads to corrosion, scale buildup, reduced efficiency and expensive repairs – all avoidable with regular onboard testing.

Our boiler and cooling water test kits let crews check key parameters including alkalinity, chloride, nitrite, pH and oxygen scavenger levels (tannin and DEHA).

Each kit delivers quick, reliable results using simple colour-change indicators or titration methods, giving you the information you need to maintain optimal system performance and prevent problems before they start.

Whether you're managing a single system or monitoring water quality across multiple vessels, Star's test kits help you stay on top of water treatment and keep your systems running efficiently.

0096005 Star Marine Boiler Water Kit

- | | |
|---|-----------------------------------|
| 1 x Marine Heavy Duty Plastic Case & Foam | 1 x pH Test Strips (7 – 14) (100) |
| 1 x Alkalinity (P & M) Test (0 – 2400 mg/l) (100) | 1 x Instruction Manual & Log book |
| 1 x Chloride Test (20 – 12000 mg/l) (100) | |



00960007 Star Marine Cooling Water Kit

- | | |
|---|-------------------------------------|
| 1 x Marine Heavy Duty Plastic Case & Foam | 1 x pH Test Strips (4.5 – 10) (100) |
| 1 x Chloride Test (20 – 12000 mg/l) (100) | 1 x Instruction Manual & Log Book |
| 1 x Nitrite Test (10 – 2000 mg/l) (100) | |



00960031 Star Marine Boiler & Cooling Water Kit

- | | |
|---|-------------------------------------|
| 1 x Marine Heavy Duty Plastic Case & Foam | 1 x pH Test Strips (4.5 – 10) (100) |
| 1 x Alkalinity (P & M) Test (0 – 2400 mg/l) (100) | 1 x pH Test Strips (7 – 14) (100) |
| 1 x Chloride Test (20 – 12000 mg/l) (100) | 1 x Instruction Manual & Log Book |
| 1 x Nitrite Test (10 – 2000 mg/l) (100) | |



Optional Extras

- 00960083** - Star TDS/Conductivity Meter (TDS: 0 – 13000ppm & CON: 0 – 20000µS)
- 00960027** - Star DEHA Comparator Test (0 – 0.5 mg/l)
- 00960028** - Star Glycol Refractometer (0 – 70% Product/ 0 – 50°C Freeze Protection)
- 00960029** - Star Hydrazine Comparator Test (0 – 5 mg/l)
- 00960030** - Star Phosphate Comparator Test (0 – 100 mg/l)
- 00960031** - Star Sulphate Tablet Count Test (0 – 200 mg/l)
- 00960188** - Star Sulphate Tablet Count Test (0 – 500 mg/l)
- 00960032** - Star Tannin Tablet Count Test (0 – 200 mg/l)
- 00960033** - Star Suspended Solids Test (5 – 500 mg/l)

Water testing kits



Reagents

Keep your water testing accurate with the right reagents

Accurate test results depend on quality reagents. Our comprehensive range of liquid titrants, indicators, tablets and powders supports all standard marine water testing methods for boiler water, cooling systems and potable water.

Whether you're monitoring alkalinity, chloride, nitrite, pH, tannin or DEHA levels, we supply the individual reagents you need to keep your test kits working reliably. Available in convenient pack sizes for repeat testing onboard.



Liquid Titrants and Indicators

Star P Alkalinity Indicator (2 × 65ml) R1 - 00970085

Indicator reagent for P-alkalinity testing in boiler systems.

Star Alkalinity Titrant (R4, 2 × 65ml) - 00970086

Titrant solution for alkalinity testing in boiler systems. Supplied in a twin pack of 65ml bottles.

MBC1 Chloride Indicator (2 pack) - 00960193

Indicator solution for chloride tests. Supplied in 2 × 65ml bottles.

mBC2 Chloride Titrant (2×65ml) - 00960194

Chloride titrant reagent. Supplied in 2 × 65ml bottles.

Star Chloride HR Titrant (R18, 2 × 65ml) - 00970080

High range chloride titrant for testing saltwater contamination in boiler and cooling systems.

Star Nitrite Indicator (N1, 2 × 65ml) - 00970083

Indicator reagent for nitrite analysis in cooling water systems.

Star Nitrite Titrant (R35, 2 × 65ml) - 00970084

Liquid titrant for nitrite testing to monitor corrosion inhibitor levels.

Star Tannin Indicator (2×65ml) - 00970089

Indicator reagent for tannin testing (also contains Sulphamic Acid).

Star Tannin Titrant (2×65ml) - 00970090

Liquid titrant for tannin analysis to monitor oxygen scavenger levels.

Star Potassium Chromate Indicator

(R16, 2 × 65ml) - 00970087

Colour indicator used alongside chloride titrants for accurate endpoint detection.

DEHA Test Solution (100ml) - 00970123

Reagent solution for DEHA analysis. Supplied in 100ml bottles for repeat testing.

TBN Reagent Pack (50) - 1x Reagent C - 00970007

Reagent C solution for Total Base Number testing in marine fuel and lubricating oils.

Star Universal Indicator Solution - 00970091

Multi-range pH indicator solution for general water quality assessment.

Tablets and Powders

Alkalinity P Tablets (250) - 00960149

Reagent tablets for alkalinity (P) testing. Supplied in packs of 250.

Chloride Tablets (250) - 00960153

Reagent tablets for chloride testing. Supplied in 250-tablet bottles.

Nitrite No.1 Tablets (100) - 00960151

First-stage reagent tablets for nitrite analysis. Supplied in packs of 100.

Nitrite No.2 Tablets (250) - 00960152

Second-stage reagent tablets for nitrite testing. Packaged in 250-tablet bottles.

DEHA Test Tablets (100 pack) - 00970124

Reagent tablets for DEHA testing. Packaged in convenient 100-tablet containers.



Potable Water Testing

Access to safe drinking water at sea is non-negotiable. Contaminated supplies put crew, passengers and everyone onboard at risk from waterborne infections and chemical hazards.

Our potable water test kits let you verify chlorine disinfection levels and detect legionella bacteria quickly and easily onboard. Simple to use and highly reliable, they give you confidence that your drinking water meets safety standards without waiting for lab results.



Star Legionella Testing Kit (5 tests) 00951042

Rapid on-site detection of *Legionella pneumophila* in potable water systems, cooling towers, and water outlets requiring frequent monitoring.

Unique three-line test distinctly identifies serogroup 1 (most virulent strain) separately from serogroups 2-15, enabling accurate risk assessment and supporting remedial action decisions

Technical Data

Test Method: Lateral Flow Immunochromatographic Assay (LFICA) with filtration

Detection: *Legionella pneumophila* serogroup 1 (sg1)

Sensitivity: ≥ 100 CFU/L (0.1 CFU/ml)

Test Time: 25 minutes

Test Format: Two-line test (test line for sg1 detection, control line for validation)

Shelf Life: 18 months from date of manufacture

Tests per Kit: 5

Connection Compatibility: US $\frac{1}{2}$ inch NPT and $\frac{3}{4}$ inch

BSP fittings; standard shower hoses

Storage: Store in a cool, dry place

Items Supplied

- 5 x *Legionella* test cartridges
- Outlet adaptor with filter assemblies
- Pipe fittings
- Instruction manual

Star Comparator Test Kit - Chlorine 00970082

Rapid verification of chlorine disinfection levels in accordance with maritime potable water standards.

DPD colorimetric method is the globally recognised standard for chlorine testing in drinking water. Simple visual comparison eliminates the need for electronic equipment or calibration. Portable design makes it ideal for routine shipboard monitoring at multiple water outlets.

Technical Data

Test Method: DPD (N,N-diethyl-p-phenylenediamine) colorimetric comparison

Measurement Range: 0–2.0 mg/L (ppm) Cl_2

Resolution: 0.2 mg/L increments

Sample Volume: 10 mL

Test Type: Free and total chlorine

Reaction Time: Instant colour development

Shelf Life: 2 years (reagents, when stored correctly)

Dimensions: Approx. 180mm (L) x 100mm (W) x 50mm (H)

Weight: 0.4kg

Construction: Robust plastic case with secure closure

Items Supplied

- Checkit comparator with colour disc (0–2.0 mg/L)
- DPD No.1 reagent tablets (pack of 250)
- Sample tubes (2)
- Instruction manual

Fuel testing and treatment



Keep fuel clean and engines running reliably

Water contamination and microbial growth are two of the biggest threats to marine fuel systems.

Our fuel testing kits detect problems early, while our Star Mariner fuel additives and Aquafighter water absorbers prevent contamination before it causes filter blockages, injector damage, or costly breakdowns.

From rapid on-board testing to proven fuel treatments, we supply the practical solutions you need to maintain fuel quality and protect your engines.

Why fuel quality matters

Contaminated fuel doesn't just risk downtime, it progressively degrades engine performance, increases maintenance costs, and can lead to non-compliance with emissions regulations.

Water accumulation creates the perfect conditions for diesel bug and fungal growth, especially in FAME-blended biofuels. Left unchecked, these contaminants cause corrosion, clogged injectors, reduced power output, and excessive wear on critical components.

Proper fuel stewardship – regular testing, preventative treatment, and contamination control – protects your investment and keeps your vessels operating at peak efficiency.

Fuel oil test kits	19 - 22
Star Mariner range	23 - 26



Star Fuelstat Testing Kit 00960218

Rapid on-site detection of microbial contamination in marine diesel fuels.

Delivers results in 15-30 minutes using advanced protein-ligand detection technology with app-based verification. No laboratory, specialist equipment, or sterile conditions required, so ideal for shipboard fuel quality checks in port or at sea. Detects bacteria, fungi, yeasts, and diesel bug before they cause filter blockages, injector damage, or costly downtime.

Technical Data

Test Method: Protein-ligand complex lateral flow test

Detection Range: Broad spectrum microbial contamination

Result Output: Negligible / Moderate / Heavy + quantitative value

Test Time: 15-30 minutes

Verification: Free smartphone app (iOS & Android)

Reporting: Automated digital reports via SMS/email with cloud storage

Shelf Life: Approx. 2 years from manufacture

Items Supplied

- Test cassette
- Sample bottle
- Pipette
- Instruction manual
- Access to step-by-step video tutorials via app





Star Marine Lube Oil Test Kit (5-in-1) 00960181

Comprehensive onboard monitoring of engine lubricating oil in one portable kit which enables engineers to assess five critical oil condition parameters directly on board, without waiting for lab results. Regular testing helps identify potential problems early, supporting proactive maintenance and protecting your engine systems.

Technical Data

Tests included: water in oil, base number (BN), viscosity, insolubles (spot test), salt water contamination

Water in Oil: Range 0–1.0 vol.% H₂O | Accuracy ±3% |
Test time up to 20 min

Base Number: Range 0–150 BN | Accuracy ±1 BN |
Test time up to 20 min

Viscosity: Suitable for all lube oils | Test time approx. 3 min

Spot Test: Visual assessment for insolubles/soot | Test time approx. 1 min

Salt Water: Go/no-go detection | Test time approx. 10 min

Construction: Compact aluminium carry case

Kit Contents

- Twin check device (water in oil & BN testing)
- Viscosity comparator
- Spot check cards
- Salt check kit
- Reagents, accessories and instruction manual

Reagents & Spares

00970000 – Water in Oil Reagent Pack (50 tests)

00970015 – TBN Reagent Pack (50 tests)

00970016 – Insolubles Spot Test

00970017 – Salt Water Contamination Test

00970018 – Viscosity Comparison Test – ViscoStick

00970001 – Test Cell/Kit Cleaner (250 ml)

00970002 – Battery for Test Cell

00970003 – Set of O-Rings for Test Cell

00970022 – Combined TBN & Water in Oil Test Cell





Star Water in Oil Test Kit 00970134

Rapid onboard testing for water contamination in lubricating and hydraulic oils. Provides accurate digital detection of water content, with automatic cut-off when measurement is complete. Internal memory stores up to 2.5 years of test data, with USB connectivity for trend analysis. The modular design means all components can be replaced onboard, ensuring long service life and reduced operating costs.

Suitable for all mineral oil-based fluids.

Technical Data

Test Method: Electronic pressure sensor with digital display

Measurement Range: 0-1.0 vol.% H₂O

Accuracy: ±3%

Test Time: 2-20 minutes (auto cut-off when complete)

Display: Digital with navigation menu

Data Storage: Internal memory (approx. 2.5 years capacity)

Connectivity: USB for data transfer and trend analysis

Oil Modes: 6 configurable modes for different oil grades

Power: 9V block battery (replaceable)

Construction: Modular design – all parts replaceable onboard

Case: Robust aluminium with protective foam insert

Kit Contents

- Complete Water in Oil Test Kit
- Reagents and accessories
- USB cable for data transfer
- Instruction manual in protective aluminium case

Reagents & Spares

00970000 – Water in Oil Reagent Pack (50 tests)

00970001 – Test Cell / Kit Cleaner (250 ml)

00970002 – Battery for Test Cell

00970003 – Set of O-Rings for Test Cell

00970004 – Water in Oil Test Cell





Star Aquafighter Fuel Tank Water Absorbers 00960229

Removes and isolates water contamination directly inside diesel fuel tanks.

Aquafighter uses superabsorbent polymer technology to capture both free and emulsified water from diesel fuel, absorbing up to 300 times its own weight. Works continuously inside the tank to prevent microbial contamination (diesel bug), filter blockages, pump damage, and corrosion.

Water-indicating dye turns red to show when replacement is needed. Non-toxic and safe to handle.



Technical Data

Technology: Superabsorbent polymer (SAP) in fabric membrane

Water Absorption: Up to 300 times its own weight

Efficiency: Reduces water to <65ppm (exceeds EN590 standards)

Visual Indicator: Water-indicating dye (turns red when saturated)

Filter Reduction: Approx. 60% reduction in filter replacement

Installation: Works directly in tank – no fuel removal required

Safety: Non-toxic, safe to handle, environmentally safe

Range: Multiple sizes for tank capacities from 0-30,000+ litres

Items Supplied

Available in multiple configurations to suit tank openings and capacities:

- Finger (38-90mm openings)
- Snake / Twin Snake / Triple Snake / Quad Snake (50-100mm openings)
- Anaconda / Twin Anaconda (90-150mm openings)
- Medium Canvas / Large Canvas (150-600mm openings)
- Fuel Station Mat (300-600mm+ openings)
- Depot (600mm+ openings)
- Refillable Dipstick Indicator and Refills

Additional Information

Demulsifies diesel and biodiesel blends by maintaining water levels within fuel specification. Prevents the domino-effect of water damage from tank through fuel system to engine. Eliminates the need for most additives and minimises biocide use. Replacement intervals vary by tank size and conditions (typically 3-24 months depending on configuration).



The Star Mariner range helps vessels keep diesel clean, stable, and dependable in any operating pattern. Each treatment targets a specific fuel issue, from cold-flow performance to water ingress and long-term degradation. Used individually or together, they support consistent fuel quality and protect key engine components without adding complexity to routine operations.

Star Mariner Neptune

00920003 (205 ltr) | 00920040 (20 ltr)



Water dispersant and fuel systems cleaner designed to remove water from fuel whilst improving lubricity and protecting injectors.

Highly effective treatment that protects injectors from damage caused by water droplets suspended in the fuel, whilst counteracting potential diesel bug growth in storage tanks. Cleans and protects injector tips for optimum fuel atomisation and complete combustion, reducing smoke and improving power output.

Technical Data

Application: Marine Gas Oils (MGOs) and low sulphur fuels

Function: Water dispersant / Injector cleaner / Lubricity enhancer

Dosage Rate: 1 litre Neptune to 4,000 litres (4 tonnes) of fuel

Key Benefits:

- Removes water from fuel effectively
- Protects injectors from water droplet damage
- Counteracts potential diesel bug growth in storage tanks
- Cleans and protects injector tips
- Ensures optimum fuel atomisation and complete fuel burn
- Reduces smoking and improves power output
- Adds lubricity to low (0.1%) sulphur content fuel
- Reduces wear in fuel pumps and injectors
- Prolongs component life



Star Mariner Eliminator

00920005 (205 ltr) | 00920049 (20 ltr) | 00920038 (5 ltr) | 00920056 (1 ltr) |
00920055 (500 ml)

Powerful fuel treatment designed to maintain the quality of marine diesel, prevent sludge formation, and keep fuel systems clean and reliable - helping to keep diesel bug at bay.

Highly effective conditioner that stabilises stored fuel, disperses contamination, and protects engines from blockages caused by sludge and oxidised fuel residues. Helps maintain clean injectors, supports complete combustion, and reduces smoke. Also suitable as a corrosion-safe water treatment for marine diesel engine closed-circuit cooling systems up to 95°C.

Technical Data

Application: Works with conventional diesel, HVO, and blended fuels - giving you flexibility as your fleet transitions to lower-carbon alternatives.

Function: Fuel preservative / Sludge dispersant / Injector cleaner / Cooling-water treatment

Dosage Rate: Fuel: 1 litre Eliminator to 4,000 litres (4 tonnes) of fuel

Cooling systems: 1 litre Eliminator to 4,000 litres of water

Key Benefits:

- Maintains long-term fuel stability
- Helps prevent sludge formation in storage tanks
- Reduces risk of filter blockages
- Cleans and protects injector tips
- Improves combustion and reduces smoking
- Supports control of diesel bug by improving fuel condition
- Non-corrosive treatment for closed-circuit cooling systems (effective to 95°C)





Star Mariner MGO Antigel **00920036 (205 ltr) | 00920043 (20 ltr)**

Anti-waxing additive designed to maintain the cold-flow performance of marine gas oil in cold climates.

Prevents waxing and gelling in winter-grade MGOs by improving the fuel's cold filter plugging point (CFPP). Helps ensure reliable fuel flow and engine performance as temperatures drop, protecting vessels operating in colder regions or transitioning into winter conditions.

Technical Data

Application: Winter-grade MGOs and low-sulphur diesel fuels

Function: Cold-flow improver / Anti-waxing additive

Dosage Rate:

Standard winter grade: 1 litre MGO Antigel to 1,000 litres (1 m³) of fuel

Mixed summer + winter grades: 1 litre MGO Antigel to 750 litres of fuel

Key Benefits:

- Improves CFPP of treated fuel (typically down to around -24°C, depending on base fuel)
- Protects against waxing and gelling in cold conditions
- Supports reliable engine start-up and fuel flow
- Designed for pre-treatment of storage tanks before filling
- Helps ensure stable winter performance of low-sulphur MGOs



Star Mariner MGO 31-A5 Fuel Stabiliser

00920054 (500 ml) | 00920053 (1 ltr) | 00920043 (20 ltr) | 00920036 (205 ltr)

Formulated to prolong the shelf life of diesel fuel during long-term storage and maintain fuel quality and usability.

Helps stabilise fuel, prevents deterioration, separation and oxidation. Provides protection against microbial growth (diesel bug) and acts as a water dispersant to protect injectors.

Suitable for biodiesel blends containing up to 50 % FAME. Effective period of protection: 12-18 months.

Technical Data

Application: Diesel fuels including those with up to 50 % FAME

Function: Fuel stabiliser / Water dispersant / Anti-microbial protection

Dosage Rate: From 1 litre of MGO 31-A5 to 500-1,000 litres of fuel (depending on fuel condition).

Key Benefits:

- Stabilises fuel and prevents deterioration, separation and oxidation.
- Protects against microbial growth (diesel bug).
- Acts as a water dispersant, helping protect injectors from wear and damage caused by water droplets carried with fuel.
- Suitable for application to diesel containing up to 50 % FAME.
- Provides effective protection for 12-18 months.



Star Antifreeze

Ethylene glycol-based coolant providing frost protection and corrosion inhibition. Inhibited with sodium benzoate and sodium nitrite for mixed-metal system protection.

- 25 ltr (00930002)

Star Bilge Water Flocculant

- Polyaluminium chloride (PAC) liquid for breaking oil-in-water emulsions in bilge water. Agglomerates oil droplets into flocs, improving separator performance and discharge compliance.

- 25 ltr (00920031)

Star Biocontrol WT

- Broad-spectrum isothiazolinone biocide for closed cooling water and lube-oil systems contaminated with water. Controls microbial growth and prevents MIC-related corrosion.

- 5 ltr (00910072)

Nut Jobb Multipurpose Lubricant

- Penetrating lubricant that frees seized parts and displaces moisture. Leaves a light protective film to resist corrosion.

- 450 ml aerosol (00910127)

Star Hydroxide 30-32%

- Sodium hydroxide alkalinity builder for raising pH in boilers, cooling systems and effluent streams. Provides neutralisation of acidity and corrosion control.

- 25 ltr (00950052)

Star Ultrasonic Multi-Cleaner

- Heavy-duty, water-based alkaline cleaner for ultrasonic tanks. Biodegradable, low-foaming, and effective on oil, grease, carbon and soil.

- 25 ltr (00910025)



Star Supplies Ultrasonic cleaning equipment for on-board use. Our range of ultrasonic baths and submersible ultrasonic transducers are all designed, manufactured and tested in Germany. We have the flexibility to meet individual customer requirements and provide cleaning solutions for the many ultrasonic applications that occurs every day on-board vessels.

Ultrasonic Baths and Cleaning Tanks and flexible Submersible Transducers for existing tanks over the past, ultrasonic cleaning systems have been incorporated on many seagoing vessels all over the world.

The ultrasonic cleaning tanks range in size from 20 litre baths to larger powerful ultrasonic cleaners tailored to individual customer requirements.

Features:

- material: stainless steel ASTM A240 / DIN 1.4571 • Power Supply: 230 or 440 (380) V 50/60 Hz
- 2 mm thickness completely welded • integrated or external generator
- working frequency: 30 kHz





Ordering Information and Specification

Part Number	Type	Volume	inner Dimensions (L x W x H) (mm)	Power Supply (V)	US power effective (W)	Heating Element (W)	Weight (kg)	External Generator	Level Sensor
00930013	USB 434	20	400 x 250 x 250	230	300	1200	25		
00930014	USB 535	38	500 x 300 x 300	230	400	1800	40		
00930015	USB 535-4	38	500 x 300 x 300	440	400	1800	40		
00930016	USB 536	60	500 x 300 x 400	230	400	1300	40		
00930017	USB 645	50	550 x 350 x 300	230	500	1800	45		
00930018	USB 645-4	50	550 x 350 x 300	440	500	1800	45		
00930019	USB 756-4	80	600 x 400 x 400	440	300	3000	60		
00930020	USB 867-4	170	750 x 500 x 500	440	1000	4500	80		X
00930021	USB 867 LT	170	750 x 500 x 500	440	1000	4500	80		X
00930022	USB 868 LT	200	750 x 500 x 600	440	1000	5400	90		X
00930023	USB 868 LTX	200	750 x 500 x 650	440	1000	5400	90	X	X
00930024	USB 1168 LT	250	1000 x 500 x 600	440	1200	5400	115		X
00930025	USB 1168 LTX	250	1000 x 500 x 650	440	1200	5400	115	X	X
00930026	USB 1480 LTX	350	1250 x 500 x 650	440	1800	6000	125	X	X
00930027	OCTAMAR	370	550 x 550 x 900	230/440	2400	5400	150	X	X
00930028	OCTAMAR690	370	550 x 550 x 900	690	2400	5400	170	X	X

Ordering Information Submersible Transducer

00930029	TD 10 SE	—	455 x 155 x 80	—	500	—	12	—	—
00930030	TD 12 SE	—	525 x 155 x 80	—	600	—	14	—	—
00930031	TD 14 SE	—	600 x 155 x 80	—	700	—	17	—	—
00930032	TD 15 SE	—	460 x 245 x 80	—	750	—	18	—	—

Key products and services:

- Marine chemicals
- Refrigeration and air conditioning
- Firefighting equipment and services
- Marine safety equipment
- LSA liferaft service and repair
- EndoSan wide-spectrum disinfectant
- Marine fuel testing and treatment
- Instrument calibration
- Marine gas detectors
- First aid and medical gases
- Jet washers
- Lorry loader and quayside services
- Narwhal Rigid Inflatable boats
- Welding equipment and services

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