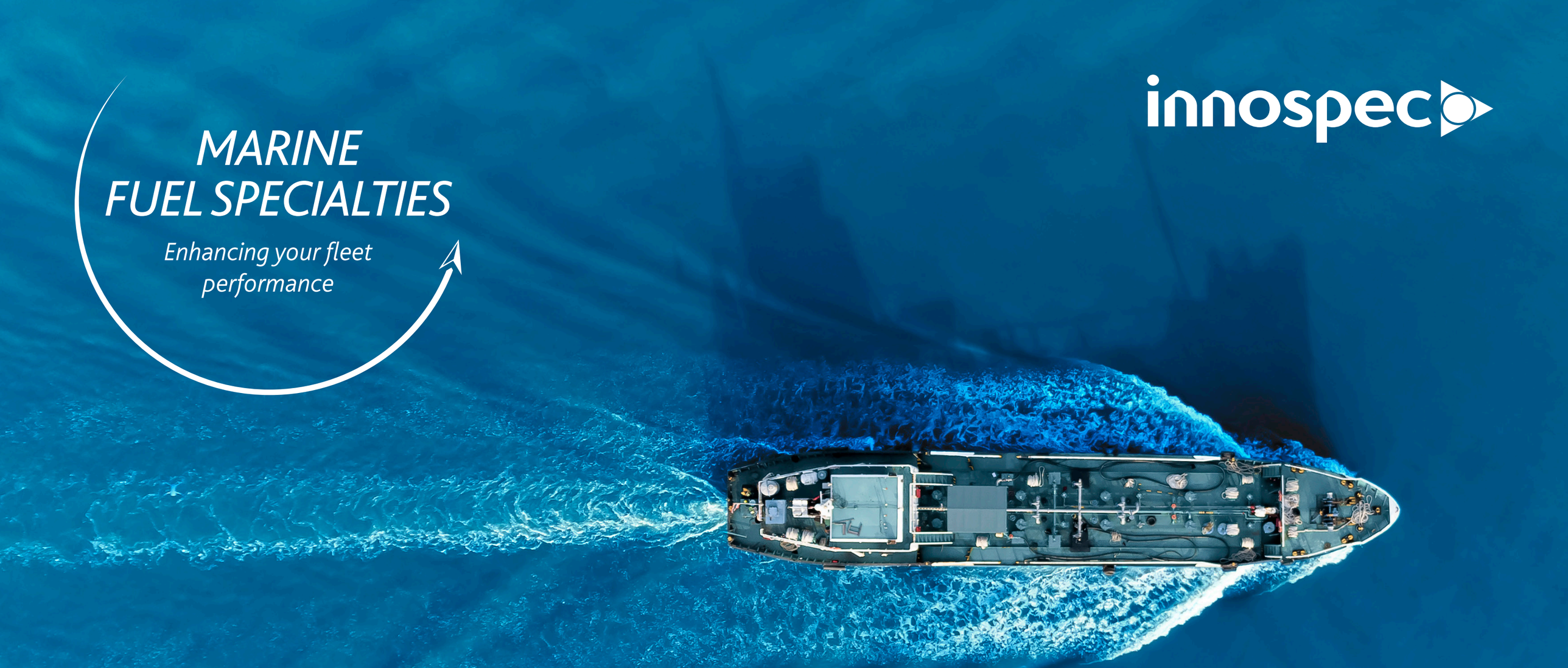
innospec

MARINE FUEL SPECIALTIES

Enhancing your fleet performance



Your experts in navigating the changing world of marine fuels

www.uniservicemarine.com

Enhancing your fleet performance



- Improved fuel economy
- Reduced emissions
- Improved combustion efficiency
- Less maintenance costs
- Engine protection

A global leader in marine fuel additives

Innospec is a leading international specialty chemicals company that manufacture and supply a broad range of additives for all types of fuel, to markets in the Americas, Europe, the Middle East, Africa, and Asia-Pacific. Our customers benefit from the strength of our worldwide manufacturing capabilities, global distribution network, and world-class technology centres.

We are proud to be a leading market player and one of the worlds largest suppliers of marine fuel additives. For decades our industry-leading experts have partnered with ship owners and bunker fuel operators to enhance fleet performance across all residual fuel types. With emissions legislation becoming increasingly stringent, the marine industry is evolving rapidly, whether it's the latest IMO regulations, meeting Carbon Intensity Index (CII) ratings, understanding EU-ETS, considering VLSFO risks, or transitioning to biofuels. We provide the science and strategies needed to keep our customers ready and compliant. Our ongoing innovation focuses on decarbonisation and creating a cleaner, more sustainable future without sacrificing performance at sea.

Helping customers to reduce emissions worldwide

Our Octamar™ range of combustion catalysts is recognised by the leading ship classification societies, for improving fuel economy and reducing emissions. Customers consistently report benefits such as lower soot levels, cleaner combustion chambers, and enhanced waste heat recovery. In just one year, we supplied enough Octamar™ additives to treat 4.8 million tonnes of fuel. Based on a conservative estimate in fuel consumption reduction, our products have helped shipping customers worldwide reduce emissions by over 363,636 metric tonnes of CO_2e. A clear demonstration of how Octamar™ additives can act as Energy Saving Devices (ESDs) in the face of rising Greenhouse Gas (GHG) emission taxation.

Dedicated to fuels and supporting decarbonisation

We work with the oilfield, refinery, performance fuel, power generation, and aviation industries, covering the entire 'well to wake' process. We are the fuel experts and our products are tried and tested whether at sea, on the road or in the air.

Today our additives play a vital role in reducing emissions by enhancing combustion efficiency, minimizing carbon deposits, and optimising fuel performance. In 2025, we calculated that our marine, gasoline, and diesel fuel additives collectively helped reduce annual CO_2e emissions by approximately 20.8 million tonnes. This is more than 200 times our total annual emissions from our operational sites, demonstrating our commitment to supporting customers in their decarbonisation efforts.



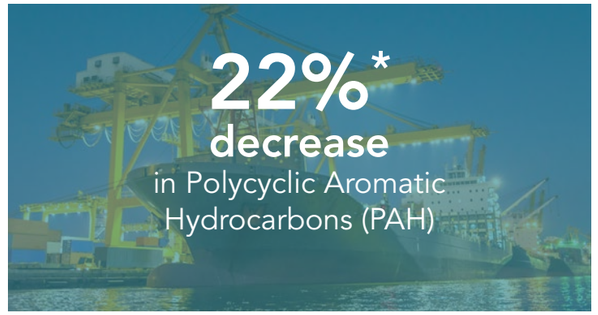
Real world results



After decades of fleet trials, test bed data and laboratory analysis, our technologies enhance engine performance and ensure less fuel is used. This in turn reduces emissions and benefits the environment. We are working at the forefront of this new era, helping to combine operational efficiency and reliability with sustainability so we can help minimise the environmental impact of transporting goods by sea.



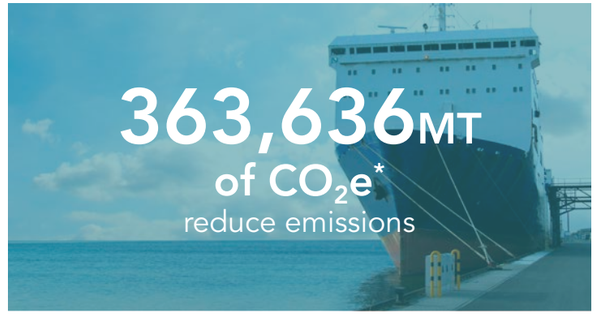
Our cutting-edge fuel treatments are designed to boost energy efficiency, deliver fuel savings of up to 3.9% and cut CO_2 proportionally. This is helping to reduce our customers' operational costs and carbon footprint, while maintaining the optimal performance of their vessels.



Real world test results demonstrate that our additives significantly reduce emissions including a decrease of up to 22% in Polyacrylic Aromatic Hydrocarbons (PAH). This can all be achieved without sacrificing engine performance. This is great news for the environment.



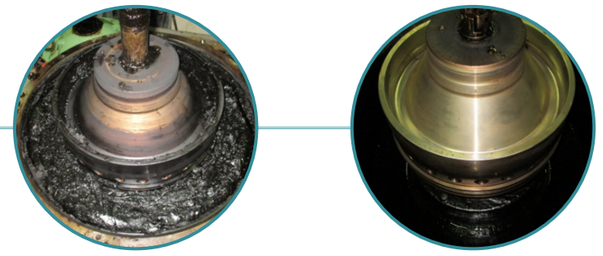
With Octamar™ it is not only possible to reduce emissions but also visibly decrease black smoke by up to a remarkable 60%. This creates a safer and more pleasant working environment for all on board without compromising engine performance or reliability.



One year of Octamar™ combustion improver additives treating 4.8 million tonnes of fuel, have helped shipping customers worldwide reduce emissions by 363,636 MT of CO_2e.



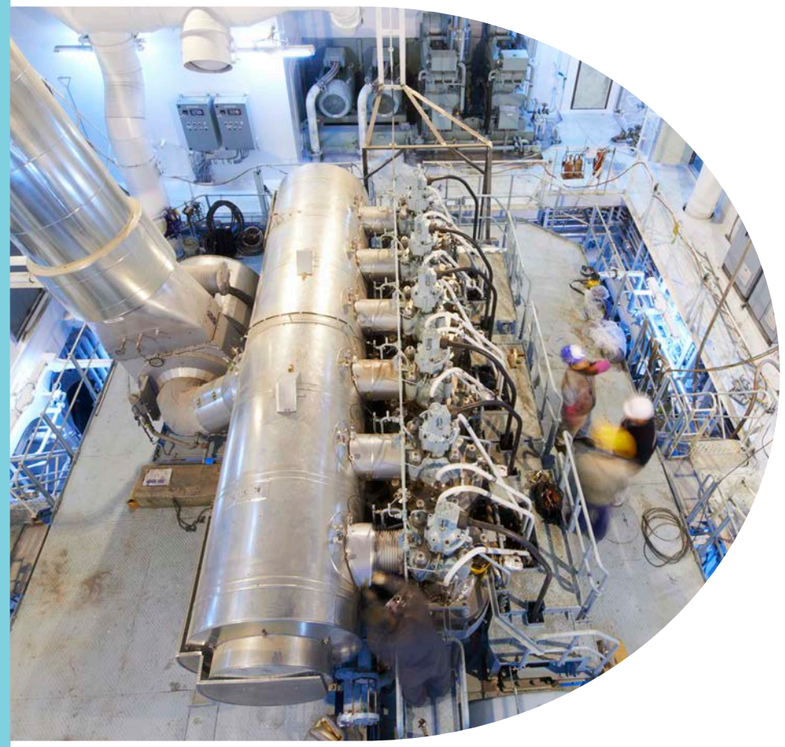
By treating fuel with Octamar™ it is possible to prevent both distillate and asphaltene sludge formation in VLSFO up to 60%, ensuring both the fuel system and engine run clean and trouble-free. Less sludge means less wasted fuel, less unplanned maintenance.



Before | After

* All data is based on results from our field trials and laboratory analysis.

Our products



The Innospec Octamar™ fleet performance range has been endorsed by one or more of the below Classification Societies.

We manufacture and supply a wide range of fuel treatments for the marine industry

The performance of our Octamar™ range of combustion catalysts has been independently verified and endorsed by a number of Classification Societies. The verification includes the performance of our Octamar™ Ultra HF, Octamar™ Complete and Octamar™ F35C for improving fuel economy and reducing emissions. Octamar™ HF-10 Plus received a Class NK 'Statement of Fact' verifying its performance in maintaining VLSFO stability.

Very Low Sulphur Fuel Oil (VLSFO) and Ultra Low Sulphur Fuel Oil (ULSFO) up to B30

Octamar™ HF-10 Plus stabilises fuel blends and prevents sludge formation, ensuring reliable operation with VLSFO and ULSFO. For enhanced performance, Octamar™ Ultra HF improves ignition and combustion while reducing fouling, even with biofuel blends up to 30%.

High Sulphur Fuel oil (HSFO) up to B30

With more than 20 years of proven use in the marine industry, Octamar™ BT-25 stabilises fuel and drastically reduces sludge formation.

For optimised results, Octamar™ Complete enhances fuel stability, ignition and combustion to deliver cleaner operation and greater efficiency – this leads to fuel economy, reduced exhaust particulates and higher scrubber efficiency.

Middle Distillates (up to B50)

Octamar™ ecopower cleans up the fuel system and increases fuel economy. Octamar™ LI Series and Octamar™ Winterflow ensure reliable protection and safe engine operation with proven performance.

Biofuels (B50+)

Octamar™ additives keep biodiesels stable and prevent oxidation as well as gum and peroxide formation. This ensures lower maintenance, reliable operation and improved engine performance when using biofuel blends.

		Anti-Corrosion	Ash Inhibitor	Asphaltene Dispersant Stabiliser	Cold Flow Improvement (CFPP)	Combustion Catalyst	Detergent Cleaner, Anti-Foulant	FAME Stabiliser	Lubricity Improver	Organic Ignition Improver	Stabiliser, Anti-Ageing	Soot Catalyst	Strong Biocide	Biofuel Application FAME & HVO
VLSFO and ULSFO	Octamar™ HF-10 Plus	■		■			■	■			■			Up to B30
	Octamar™ Ultra HF	■	■	■		■	■	■		■	■	■		Up to B30
HSFO	Octamar™ BT-25			■			■			■				Up to B30
	Octamar™ Complete		■	■		■	■	■		■		■		Up to B30
	Octamar™ F35C					■						■		
Middle Distillate	Octamar™ ecopower	■				■	■	■		■		■		Up to B50
	Octamar™ LI-5 Series	■					■	■	■		■			Up to B30
	Octamar™ Winterflow				■									Up to B30
	Grotamar® 71*	■											■	Up to B100
B50+	Octamar™ Bio 403E	■						■						From B50 up to B100

VLSFO and ULSFO up to B30

Octamar™	HF-10 Plus	Ultra HF
Product Highlights	Octamar™ HF-10 Plus prevents VLSFO ageing, keeps your engine running efficiently by stabilising fuel blends, reducing sludge formation and improving combustion.	Octamar™ Ultra HF is the multi-functional solution tailored for VLSFO. It keeps your engine running efficiently by improving fuel blend stability, ignition and combustion as well as reducing soot formation. It offers an option in your SEEMP implementation and to meeting your Carbon Intensity Index (CII) ratings.
Benefits	• Prevents VLSFO ageing and sludge formation. • Stabilises fuel blends and enhances compatibility. • Keeps storage tanks and injection systems clean. • Reduces filter issues. • Supports biofuel blends up to 30%. • Helps reduce unplanned maintenance.	All the performance of Octamar™ HF-10 Plus **with the additional benefits:** • Combines fuel stabilisation, ignition boost and combustion catalyst in one solution. • Improves fuel economy and engine efficiency. • Reduces particulate matter, soot and CO_2e emissions. • Minimises fouling in exhaust gas systems (turbochargers, EGR, boilers). • Enables smoother fuel changeovers and cleaner fuel handling plant. • Fully compatible with up to 30% biofuels. • Supports SEEMP/CII compliance and long-term operational reliability.
Application	Add Octamar™ HF-10 Plus to fuel storage tanks before bunkering to achieve best mixture. Maintain a good reserve of additive in each tank by pre-treating each bunkering to reduce sludge and comingling issues by improving stability.	Apply Octamar™ Ultra HF to fuel storage tanks prior to bunkering fuel to achieve the maximum effect. Enhancing vessel fuel performance, cleaner fuel handling plant, better and more complete fuel burn and efficiency, less fouling in post combustion systems such as turbo chargers, exhaust gas boilers and EGR.
Verification	• Dispersion & centrifugal evaluation of marine additives under JSA standard verified by Class NK. • Reserve Stability Number (RSN) ASTM D7061-17 test verified by Class NK. ClassNK	• ClassNK Innovation Endorsement for eight separate field trials. • Improvement of fuel economy up to 3.9% and reduced Particulate Matter (PM) emissions by up to 60%. • Improvement of fuel economy. Reduction of exhaust gas and other emissions. ClassNK Innovation Endorsement ABS IEP SERVICES
Treat Rate	1:10,000-15,000: VLSFO fuel stability and compatibility, less sludge, better operability. 1:4,000: better long-term thermal stability and increase engine performance.	1:6,000: maximises fuel performance, long-term thermal stability results and optimised engine performance with significant fuel economy and emission reduction.
Packaging	Non-returnable 25-litre pails.	Non-returnable 25-litre pails and 200-litre drums.

HSFO

Octamar™	BT-25	F35C	Complete
Product Highlights	High impact residual fuel improver.	Highly efficient, reliable technology for scrubber vessels.	Groundbreaking, complete technology for scrubber vessels. It keeps your engine running efficiently by improving fuel blend stability, ignition and combustion as well as reducing soot formation. It offers an option in your SEEMP implementation and to meeting your Carbon Intensity Index (CII) ratings.
Benefits	• Delivers high performance sludge reduction. • Perfect for "in-service" fuel tank cleaning. • Reduces filter blocking. • Improves compatibility. • Safer fuel changeover. • Cleaner separators and fuel tanks. • Homogeneous fuel for the prevention of purifier issues and better combustion.	• Optimises energy efficiency. • Improves ignition and combustion profile. • Reduces SFOC and CO_2e. • Reduces particulate matter and black smoke in exhaust gases. • Reduces exhaust system fouling. • Low impact exhaust system cleaning - soot catalyst.	• Optimises energy efficiency. • Improves ignition and combustion profile. • Reduces SFOC and CO_2e. • Reduces particulate matter and black smoke in exhaust gases. • Reduces exhaust system fouling. • Enhances fuel stability. • Reduces sludge production. • Low impact exhaust system cleaning - soot catalyst. • Fuel stabiliser for overall performance boost.
Application	Add Octamar™ BT-25 by manual dosage into fuel storage tanks before bunkering to achieve best mixture. Use of chemical metering pump is optional. Maintain a good reserve of additive in each tank by pre-treating each bunkering to reduce sludge and comingling issues by improving stability.	Add Octamar™ F35C by manual dosage bunker tanks. Use of chemical metering pump is optional. Enhancing vessel fuel performance, better and more complete fuel burn and efficiency, less fouling in post combustion systems such as turbo chargers, exhaust gas boilers and EGR.	Add Octamar™ Complete by manual dosage into bunker tanks. Use of chemical metering pump is optional. Maximises vessel fuel performance, cleaner fuel handling plant, better and more complete fuel burn and efficiency, less fouling in post combustion systems such as turbo chargers, exhaust gas boilers and EGR.
Field Experience and Approvals	• Proven field experience with improved fuel stability, compatibility, and combustion. • Proven high performing tank cleaning test results in thousands of vessels. • Holds no-objection letters from all major marine engine producers.	• ClassNK Innovation Endorsement for eight separate field trials. • Improvement of fuel economy up to 3.0% and reduced Particulate Matter (PM) emissions by up to 60%. • Improvement of fuel economy. Reduction of exhaust gas and other emissions. ClassNK Innovation Endorsement	• ClassNK Innovation Endorsement for eight separate field trials. • Improvement of fuel economy up to 3.9% and reduced Particulate Matter (PM) emissions by up to 60%. • Improvement of fuel economy. Reduction of exhaust gas and other emissions. ClassNK Innovation Endorsement ABS IRP SERVICES
Treat Rate	1:15,000 – 1:25,000: better long-term thermal stability and increase engine performance.	1:6,000: maximises fuel performance, long-term thermal stability results and optimised engine performance with significant fuel economy and emission reduction.	1:6,000: maximises fuel performance, long-term thermal stability results and optimised engine performance with significant fuel economy and emission reduction.
Packaging	Non-returnable 25-litre pails.	Non-returnable 25-litre pails and 200-litre drums.	Non-returnable 25-litre pails and 200-litre drums.

Middle Distillate

Octamar™	LI Series	Winterflow	Grotamar® 71*	ecopower
Product Highlights	Optimum fuel performance and multi-functional lubricity improvers. For the enhanced version, it offers prevention to ageing during prolonged storage.	High performing Multi-functional Cold Flow Improver.	Grotamar® 71 provides lasting protection against microbial material degradation with broad, balanced spectrum of effects, works immediately.	Cutting-edge and dependable technology for superior MGO engine operations. It keeps your engine running efficiently by improving fuel blend stability, ignition and combustion as well as reducing soot formation. It offers an option in your SEEMP implementation and to meeting your Carbon Intensity Index (CII) ratings.
Benefits	• Improves fuel lubricity. • Improves storage stability. • Reduces injector fouling. • Improves corrosion resistance. • Reduces filter blocking. • Protects engine components – longer fuel injector – and pump life. • Prevents bacteria growth, proactive protection. • Improves oxidation and thermal stability for Marine Distillate containing up to 30% biofuels.	• Protects against wax formation. • Improves low temperature operability. • Reduces CFPP (Cold Filter Plugging Point). • Reduces pour point. • Keeps fuel pumpable and filterable in cold climate conditions.	• Protects against microbial contamination in fuel and tank systems. • Effective against bacteria, moulds and yeasts across fuel and water phases. • Prevents sludge, sediment and biofilm formation that can block filters. • Maintains additive performance and reduces risk of unplanned maintenance. • Suitable for both preventative and shock treatment in marine fuel tanks. • Works in all hydrocarbon fuels, including marine biofuel blends.	• Prevents and removes deposits in fuel injectors. • Cleans-up engine and fuel system when used. • Improves overall operating efficiency. • Leads to fuel economy and reduced unburned carbon emissions. • Reduces soot and carbon deposits in combustion chamber, exhaust valves and turbo chargers. • Extends maintenance schedule and maintained maximum operational efficiency.
Application	Add Octamar™ LI Series manually into bunker tanks prior to bunkering to achieve best mixture.	Add Octamar™ Winterflow by manual dosage into bunker tanks. Note: Must be applied before issues occur.	• Preventative Treatment It is recommended to add the full dosage of Grotamar® 71 when the tank is approximately one-third full, before filling the tank to capacity. Ideally agitation would help but it's not essential. • Shock Treatment If contamination is severe, Grotamar® 71 should be dosed immediately. Grotamar® 71 can also be dosed in line which is the best option if available.	Add Octamar™ ecopower via a chemical metering pump or manual dosage into bunker tanks before bunkering to achieve best mixture. Enhances vessel fuel performance, better and more complete fuel burn and efficiency. Minimises fouling for fuel injectors and post combustion systems such as turbo chargers, exhaust gas boilers and EGR.
Field Experience and Verification	Tested and verified by Lloyds Register for: Oxidation Stability, Thermal Stability, Injector Fouling, Steel Corrosion, Fuel Lubricity, and Filter Blocking Tendency, all according to defined Standard Test Methods.	• More than 50 distillate fuels tested with proven performance to improve Cold Filter Plugging Point (CFPP) and Pour Point. • Average CFPP response in untreated DMA = 6-7°C. • Tested and verified by Lloyds.	• Reduces the risk of unplanned shutdowns/ maintenance/cleaning operations. • Stops the formation of sediments and slime which can block filters in distribution and vehicles systems. • Helps to maintain performance of other fuel additives present, which may become deactivated by microbes and to prevent engine injector fouling in vehicles.	• 2.5% fuel economy independently verified by a third party.
Treat Rate	1:10,000: for optimum fuel lubricity performance. 1:4,000: maximises fuel performance, lubricity and long-term thermal stability results.	1:1,000.	1:20,000 to 1:5,000: Preventative Treament. 1:2,000 to 1:1,000: Shock Treatment / Quick Kill.	1:3,000: maximises fuel performance, long-term thermal stability results and optimised engine performance with significant fuel economy and emission reduction.
Packaging	Non-returnable 25-litre pails.	Non-returnable 25-litre pails.	Non-returnable 25-litre pails.	Non-returnable 25-litre pails.

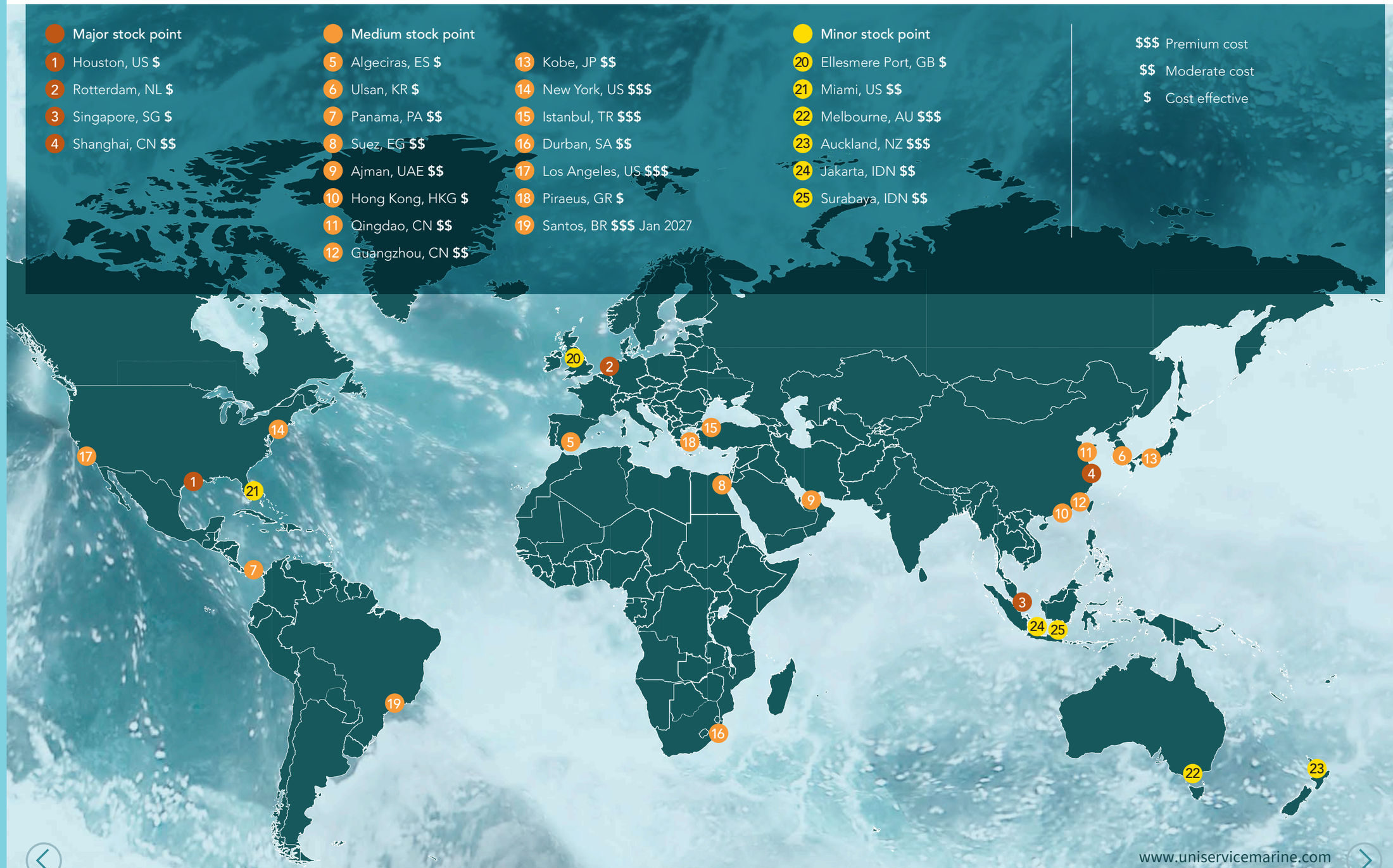
Biofuel treatments

Fuel type	Product	Key highlights	Biofuel Application FAME & HVO	Packaging
Biodiesel	Octamar™ Bio 403E	Advanced stabiliser. Prevents oxidation, sediment formation, ensures injector cleanliness and filterability.	From B50+	Non-returnable 25L pails and 190 kg drums
HSFO	Octamar™ Complete	Reduces fuel consumption, soot formation and fouling due to improved combustion process.	Up to B30	Non-returnable 25L pails and 200L drums
VLSFO and ULSFO	Octamar™ Ultra HF	Combines combustion catalyst and stabiliser. Reduces PM and emissions, improves ignition.	Up to B30	Non-returnable 25L pails and 200L drums
	Octamar™ HF-10 Plus	Improves fuel blend stability and prevents sludge formation.	Up to B30	Non-returnable 25L pails
Marine Distillates	Octamar™ ecopower	Enhances fuel combustion and prevents injector fouling and filter clogging. Improves fuel stability.	Up to B50	Non-returnable 25L pails
	Octamar™ LI Series	Improves lubricity and storage stability in biofuel blends. Enhances injector life and pump protection.	Up to B30	Non-returnable 25L pails
Marine Distillates	Octamar™ Winterflow	Prevents wax formation and flow issues in cold temperatures. Maintains CFPP and pour point in biofuels.	Up to B30	Non-returnable 25L pails
	Grotamar® 71*	Biocide for microbial contamination control. Prevents filter plugging, sludge and system corrosion.	Up to B100	Non-returnable 25L pails

The treat rate for biofuel is dependant on the biofuel properties. Talk direct to your regional contact for specific treat rates.

Our teams and global stock points

We operate global stock points all over the world and provide dedicated technical support within each of our regions. This ensures we can provide the innovative solutions our customers need to drive efficiency, reduce emissions and enhance overall fleet performance. Our products are always in the right place at the right time. We are leading the way towards a cleaner, more efficient and sustainable future for the marine industry.



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For further information about our products and services please contact your nearest Innospec Customer Service Centre or visit octamar.info

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