

For more information on how Innospec's Performance Specialties team can work with you, please contact our regional sales office.

Our international office network offers unrivalled product support and it has the resources to deliver the required fuel additive treatments to customers anywhere in the world.

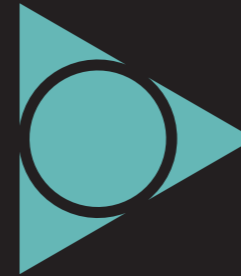
Innospec Fuel Specialties LLC
8375 South Willow Street
Littleton, Colorado 80124
Tel: 303-792-5554



Innospec Limited
Innospec Manufacturing Park
Oil Sites Road, Ellesmere Port
Cheshire, CH65 4EY, UK
Tel: +44 (0)151 355 3611

Innospec Limited
Branch Office Singapore
47 Scotts Road
#02-03 Goldbell Towers
Singapore 228233
Tel: +65-6336 6286

www.innospecinc.com



Marine Specialties





One name many products

Innospec is the largest supplier of heavy fuel oil treatments in the world and our broad product range can help with handling the complexities of fuel treatment at sea.

Our product range includes:

Octamar™ BT-8

Octamar™ BT-8 PLUS

Octamar™ F

Octamar™ HF 69

Octamar™ MP-3 PLUS

Octamar™ CP3500

Octamar™ MP-4

Our dedicated Marine Specialties team is part of Innospec's international Fuel Specialties business and includes some of the world's leading experts in fuel treatment for the shipping industry. This team serves the specific needs of the marine market.

This provides us with the experience, market knowledge, understanding and technical expertise to work closely with ship owners and their managers to develop specific additive solutions. Our extensive laboratories in the UK, Germany, France and the United States are also there to support our Marine Specialties team.

As a company, Innospec operates on a truly worldwide scale. This provides all our business operations with the type of global reach and financial resources few of our competitors can match. This means we can provide innovation, support and a fast response to our customers' needs on both a local and international scale.



Innospec's Fuel Specialties business comprises of a number of dedicated teams. The Marine Specialties team focuses on fuel treatments for the marine market. We also have teams serving the needs of the refinery, power, heating, performance specialties and fuel borne catalysts markets.

A focus on service

Innospec's Marine Specialties team has a proven track record in the marine market. Our range of heavy fuel oil treatments has been used successfully by the shipping industry for many years.

These products have been specifically manufactured for the residual fuels and residual fuel blends typically used in marine engines, including modern high load 4-stroke engines as well as 2-stroke engines.

Our additives are designed to optimise engine reliability, boost performance and reduce engine maintenance. Much of this technology has been developed in partnership with some of the world's largest ship operators.

Focusing on engine performance is especially important today with the production of more high-density, poor quality marine fuels, all of which have poor combustibility. These fuels usually have a detrimental affect on performance.

By offering an alternative to costly retrofit engine adaptations and/or the purchase of more expensive, better quality fuel, Innospec's additives are a simple and economic solution to improved engine performance.

Our Marine Specialties team has the capability to develop fuel treatments that address the specific problems associated with marine fuels.

Octamar™ products are acknowledged as the best fuel oil treatments available. With



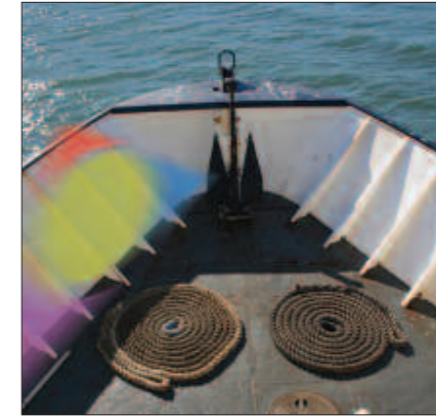
expertise in Research & Development, application development, dosing systems and additive distribution, our customers can also expect unrivalled technical support and service commitment.

As part of the fast-moving Innospec specialty chemicals company, our Marine Specialties' customers benefit from a fully integrated supply chain and an international network of sales offices. We can offer unrivalled support, delivering products worldwide to our customers' specifications.

Innospec is a dynamic global specialty chemicals company. Our Fuel Specialties business specialises in manufacturing and supplying additives to improve fuel efficiency, boost engine performance and reduce harmful emissions. As the only business solely focused on fuel and fuel additive technology, we have become the champion of innovative new fuel treatment technologies in a rapidly changing market.

Technology that works

From fuel storage through combustion to the exhaust funnel, our Marine Specialties team can supply a broad range of additives for solving fuel oil related problems in the shipping industry.



Supported by long-term field experience and independent bench testing, our fuel treatments can effectively increase the reliability and performance of engines running on a range of fuel qualities whether they are blended fuels, high-asphaltene/MCR fuels or high-vanadium/sodium fuels that are burned in engines with high exhaust temperatures.

Whatever the requirement you can be sure Innospec's technology has been proven to work efficiently and cost-effectively.

Our product range:

Innospec offers a complete range of additives for bunker and diesel fuels:

Pre-combustion Additives

Our pre-combustion additives were specially developed for residual fuel stabilisation where asphaltene agglomeration results in sludge formation in the tanks and fuels system.

Our Octamar™ dispersant/stabilizer products allow the blending of heavy and light components as well as the mixing of fuels that may become unstable when blended.

The dispersant/stabilizer components in our pre-combustion additives keep bunker tanks,

filters, strainers and fuel heaters clean. This means less maintenance and less downtime. Completely homogenous fuels help reduce the separator workload and improve fuel injection, atomisation and combustion efficiency.

Octamar™ dispersant/stabilizer products are available as pure ashless additives or in combination with a combustion catalyst. The combined treatment will keep the fuel system clean and improve fuel combustion to reduce unburned carbon (soot) emissions. This also keeps the exhaust system components clean.

Combustion Additives

Our Octamar™ combustion additives ensure a more complete burnout of carbon and hydrocarbon and reduce the build-up of deposits. This results in a cleaner engine, turbocharger and exhaust gas boiler. This in turn cuts down on engine maintenance and increases the time between overhauls. Field tests confirm that our products significantly reduce the risk of gas boiler soot fires.

Our Octamar™ combustion additives could be used for all kinds of marine fuels. We offer a highly concentrated and a diluted liquid combustion additive as well as a very effective solid combustion catalyst.

We also offer a metal-free organic fuel oil combustion additive that should be continuously dosed into all fuels burned onboard ships. Continuous use of this product results in better fuel atomisation, reduced exhaust temperatures, reduce wear of piston rings and cylinder liners and reduced smoke and emissions.

Our complete range of Marine Specialties products are stored in key ports around the world. The treatments are dosed to the fuel by specific metering and dosing systems that can be easily installed and operated.



Ash Modifiers

Our ash modifiers are combinations of an ash inhibitor and a combustion catalyst. They deliver a unique blend of organo-metallic compounds to promote the rapid oxidation of fuel for more efficient combustion.

Octamar™ ash inhibitors ensure exhaust valves and super heater tubes remain free from hard ash deposits by raising the melting point of the ash compounds so it is higher than the exhaust valve and superheater surface temperatures. The combustion catalyst improves combustion in both boilers and diesel engines.

Our Marine Specialties team also supplies additives to solve specific 'non-combustion' problems at sea. We can supply:

- An additive for 2-stroke engine cylinder lubrication oil to stop piston-rings sticking in the ring grooves - a problem caused by lube carbonisation
- A premium lubricant that blends with all petroleum based oils and fluids to improve their efficiency and extend their operating life
- A concentrated oil based emulsion breaker to resolve high solid and water content slop oil emulsions
- A line of MDO additives to help improve combustion, fuel lubricity and stability
- A broad spectrum micro-biocide for distillate fuels, which destroys aerobic and anaerobic bacteria
- An efficient oil spill remover to use in case of pollution in harbours and at sea

