

OCTAMAR™ WINTERFLOW

Winterize your MGO

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Class Verified **Octamar™ Winterflow** - a pour point and CFPP depressant tailored specifically for DM-grade marine distillate fuels, improving Pour Point up to 9°C, and CFPP up to 13°C.

Innospec is the market leader in marine fuel additive chemistry. Our extensive laboratory testing has shown that preventative treatment of MGO with **Octamar™ Winterflow** ensures continued fuel flowability, pumpability, and filterability, thus protecting the vessel's fuel system and avoiding fuel starvation, costly downtime or manual heating solutions.


Why are Cold Flow Improvers needed for MGO?

As global shipping continues its shift toward cleaner low-sulfur fuels, Marine Gas Oil (MGO) has become a preferred choice in Emission Control Areas (ECAs). While MGO offers a simpler, more stable profile compared to hybrid VLSFOs, it remains vulnerable to several operational risks - one of the most critical being wax crystallization in low temperature environments.



In colder climates, paraffinic components in MGO can begin to crystallize into large wax structures. This can occur even before reaching freezing temperatures, as some fuels may begin to solidify well above 0°C. These crystals can obstruct filters, fuel lines and injectors, creating severe operational and safety risks. In extreme cases, fuel may become unpumpable, resulting in potential propulsion loss.

Cold Filter Plugging Point (CFPP) and Pour Point become essential indicators of fuel performance. Yet, while Pour Point is a standard ISO 8217 test, CFPP testing remains optional.

Octamar™ Winterflow has undergone independent and rigorous testing by Lloyd's Register across a wide range of MGO fuel samples, consistently demonstrating significant improvements in both Pour Point and Cold Filter Plugging Point (CFPP). These clear and repeatable results underline the product's robust performance across varied fuel qualities and cold flow conditions. As a result, **Lloyd's Register** has awarded it their official **Performance Certification Seal** .

The Octamar™ Winterflow Advantage

Octamar™ Winterflow is essential for maintaining operability of main propulsion and auxiliary engines, lifeboats, and emergency generators in low temperatures. Enhancing the cold-weather reliability of Marine Gas Oil (MGO), supports compliance with SOLAS safety standards and helps vessels maintain readiness during colder climates and ECA transits.

Performance	Octamar™ Winterflow
Cold Flow Protection for Marine Diesel Fuel	✓
Wax Crystal Modifier	✓
Pour Point Reduction Technology	✓
CFPP Reduction Technology	✓

Lloyd's Register performed ISO 3016 (Pour Point) & ASTM D 6371 (CFPP) lab tests to independently verify Pour Point and CFPP capabilities. To ensure uninterrupted operations during cold weather seasons, vessels should stock **Octamar™ Winterflow** onboard in advance, as part of a proactive fuel risk management plan.

Cold Flow Enhancement Technology

- ✓ Tested and verified in both laboratory and real-world conditions
- ✓ CFPP Improvement of up to 13°C*
- ✓ Pour point improvement of up to 9°C*
- ✓ Suitable for splash blending into MGO tanks

*Determined by Lloyds Register in their assessment of the product

Low temperatures
Protection for Marine
Gas Oil

Proven CFPP & Pour
Point Reduction

Validated Performance

Class Verified

CERTIFIED



ADDITIVE PERFORMANCE
CERTIFICATION SCHEME

Please contact your local sales representative for more information.

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