



MICROBMONITOR[®] GMF



What is the test?

The **MicrobMonitor GMF** is an easy to use test kit for microbial contamination in diesel and marine fuels with simple to read, reliable results. A small sample of fuel is added into a bottle containing a specially formulated gel. The tests bottle is then placed in a warm location and the number of microbial colony forming units (CFU) that develop indicates the severity of the contamination. Each box includes a single **MicrobMonitor GMF** test, a sterile sampling container and a sterile disposable dispenser for measuring fuel sample.

What is the test used for?

To assess the presence and extent of bacterial and fungal contamination in ground and marine fuels in storage, distribution and use, including:

- Marine diesel and gas oil
- Automotive diesel and gasoline, including biofuels
- Heating oils and fuels for power generation

Who can use the test?

ANYONE - no special skills or equipment are needed, full instructions are provided, and tests can be used on-site.

Why test for microbes in fuel?

Microbial contamination in ground and marine fuels has caused power generation failures, large scale fleet disruptions, and power and propulsion loss in ships. If left unchecked contamination can:

- Restrict the flow of fuel by blocking filters and pipes.
- Corrode tanks
- Degrade fuel quality

Regular testing for microbes together with a good maintenance regime can:

- Improve asset performance
- Reduce operational and safety risks





Why use the test?

- Designed for use with today's marine and diesel fuels, including biofuels and biofuel blends.
- Optimised for simple testing with easy to understand results.
- Quick and easy to use on-site.
- All you need to take the sample and perform the test is included – no additional equipment needed.
- More economical than standard laboratory tests.
- Indicates the severity of any infection not just the presence of microbes as with "go, no-go" tests.
- Detects even at low contamination levels to give early warning of potential problems.
- Detects active growth of moulds (including *Hormoconis resinae*), yeasts and bacteria.
- Also detects microbial spores – these can be an important indicator of contamination status when testing fuel samples which do not contain water.
- Unaffected by biocides or other fuel additives; does not give false positives in the presence of dead microbes so can assesses the effectiveness of biocide treatments quickly.

Is the test reliable?

MicrobMonitor GMF uses the same CFU technology as laboratory standard test methods IP 385 and ASTM 6974.

The number of CFU indicated by **MicrobMonitor GMF** provides an assessment of the extent of microbial contamination in the tank or system. CFU counts have been shown to provide one of the most reliable indications of tank contamination status.

Unlike some other technologies, **MicrobMonitor GMF** can provide reliable indication even when no water is available for test.

What about Support?

Our authorised **MicrobMonitor GMF** distributors can provide first line of support to the product and are backed by ECHA's many years' experience and expertise in the microbiology of fuels. If you require assistance, please contact your supplier.

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For more information on how to order this product, please contact your local authorised supplier:



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