

Developing new
anti-microbial
solutions for
aircraft fuel
tanks



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Biocontamination
survey for Microbially
Influenced Corrosion
exposure TESTS

MICTEST develops new protocols for coatings, materials and components of aircraft fuel tanks to control microbial development.

Why is MICTEST important?

Under certain conditions, microbes can grow in the fuel tanks of aircraft and can threaten the security due to their corrosive and clogging effects.

Antimicrobial coatings and materials are promising solutions to prevent the adherence and growth of microbes to surrounding surfaces. These materials and coatings should be robust to severe microbes while at the same time have no reverse effect on the fuel itself.

What is being done?

-  1 Define microbial presence in fuel tanks
-  2 Qualify coatings & materials
-  3 Support international guidelines
-  4 Develop new protocols



What is the current solution?

Currently, manufacturers and suppliers are using in-house procedures for testing of antimicrobial solutions which are not always representative of the aircraft environment. In addition, the lack of a standardized protocol makes it nearly impossible to benchmark antimicrobial solutions.