

INTERNATIONAL BIODETERIORATION RESEARCH GROUP

Functional Fluids (FF) Project Group: Annual Report 2021

Report No: IBRG FFG22-002

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The FF Project Group met via web-conferences twice during the pandemic in 2021 and no meeting was held in 2020. The attendance at those meetings was eleven to fifteen people and the following methods were finalised by the group in this period and are now available for sale on the IBRG website (<https://www.ibrg.org/methods.aspx>) :

- IBRG FFG21-008.1

A Method for Determining the Basic Efficacy of Biocidal Active Substances used as Curative Agents against Aerobic Planktonic Bacterial Populations and Biofilms in Aqueous-Based Systems

- IBRG FFG21-011.1

A Method for Determining the Basic Efficacy of Biocidal Active Substances used as Curative Agents against Anaerobic Planktonic Bacterial Populations and Biofilms in Aqueous-Based Systems

- IBRG FFG21-009.1

Efficacy of Products used as Preservatives of Fluids used in the Oil and Gas Extraction Industries - Anaerobic Bacteria

- IBRG FFG21-010.1

Efficacy of Products used as Preservatives of Fluids Used in the Oil and Gas Extraction Industries - Anaerobic Bacterial Biofilms Preservative

The methods 008 and 011 are generic methods for testing biocides in aqueous-based systems, whereas the methods 009 and 010 are developed for testing biocides as they are applied in the oil and gas extraction industries.

All four methods serve to generate data to support claims of basic efficacy relevant to the European Biocidal Product Regulation concerning actives substances for Product Type 11 and Product Type 12. They were brought to the attention of the competent authorities dealing with the efficacy of biocides in Europe.

At the spring meeting 2021 the FFG hosted a new work item “Development of a Laboratory Method to assess Resistance Development of Microorganisms to Biocides”. This topic has now been moved to the IBRG group working on Treated Articles.

In the meeting in autumn 2021 two new areas of future work were proposed: 1) How to implement Tier 2 conditions into current IBRG Test methods and 2) Preventative and curative treatments for against algal growth in cooling waters, etc.

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