

BIM Oilguard™ concept

- PFAS free chemistry for oil and grease resistant barrier properties applied to moulded fibre food packages

The BIM Oilguard™ concept enables the production of PFAS free oil and grease resistant moulded fibre products without extensive process changes, making BIM Kemi your perfect partner in developing environmentally friendly alternatives to plastic packaging.

Food packaging materials produced from moulded fibre are essential in replacing single use plastic food containers. But for too long, PFAS have been used to impart the properties needed to repel oil, grease and water. However, these harmful chemicals have been found to accumulate in nature and living organisms, including humans, with serious health consequences. They are often referred to as “forever chemicals” due to their biopersistence, leading to irreversible environmental exposure and accumulation. This has led to a number of proposed bans and restrictions in several countries.

Green chemistry

The BIM Oilguard™ concept (BIM MFO range) is designed to eliminate the need for PFAS in all types of food packaging, such as moulded fibre trays and bowls, food wrapping paper and cardboard pizza cartons.

Fiber-based food packages treated with BIM Oilguard™ can be recyclable and compostable and do not generate microplastics.

Customer value

There is much to be gained by using the BIM Oilguard™ concept:

- OGR (oil and grease resistance)
- Water resistance
- Food contact approved
- PFAS / Fluorocarbon free
- Plastic and MOAH free
- Contains no palm oil
- Repulpable and recyclable
- Compostable
- No additional fixation chemistry required
- No production process changes or loss of productivity
- Easy to apply

Technical Profile

- BIM Oilguard™ is:
 - water based dispersion
 - one component cationic system
 - applied in the wet end
 - compatible with existing chemical treatments
 - boosting water repellency
 - compatible with BIM's barrier programme
- Different types are available for hot and cold food applications

BIM application specialists provide close support and consultancy for machine setup and optimisation.

Full service and support package:

- Oil and grease evaluation methods
- Pre-study lab evaluation
- BIM Repulpability & Recyclability test
- BIM Compostability test
- Application support
- Optimisation tools & chemistry

BIM Way of Working

Everything we do must add value to our customers. Therefore, we work in a network- and project organisation where the teams are populated with people best suited for the task.

With innovative solutions and specialised applications, we support the development of successful and sustainable products/ processes.

