Modern flow simulations are increasingly used to identify the root cause of filtration problems, and in the development of filtration solutions for custom applications. The main challenges addressed by Seebach’s modern flow simulation relate to the scientific characteristics of the fluids to be filtered and the filter media to be used. The foundation of the Seebach approach is our extensive knowledge and experience in the filtration of non-Newtonian fluids which change their viscosity with applied shear.

Seebach has extensive experience in the simulation of fluid and media flow characteristics. Utilizing the simulation process we can optimize existing systems or design new systems optimized for specific applications.

Seebach has developed the possibility to describe the dynamics for classical fluids such as gases and liquids, and also for non-classical fluids such as polymers and resins.

As a result, we are able to provide the following data (graphically expressed diagram):
• Expected start pressure loss
• Velocity profile within the filter
• Shear stress and viscosity profiles
• In case of a temperature-dependent simulation: temperature gradient

For the simulation, we require the following data:
• Drawings (preferred 3D models) of existing filtration system
• Information on flow rate, temperature conditions, desired filtration rating and filtration
• Fluid data (density, viscosity curves, temperature transition coefficient, etc.)

Depending on the quality of the existing data our time requirement to complete a simulation is:
• about 1 - 3 working days for creating the simulation model
• about 1 - 3 working days for the definition of the fluid and filter media data and the configuration of the simulation
• 1 - 2 working days for the generated report

For a customized quote please contact us at:
simulation@seebach.com
Innovative Filtration Solutions

Seebach GmbH

Since 1970 leading in filtration technology.

Tailor made filtration solutions designed and manufactured in Germany.

Continuous process optimisation and innovation for challenging applications in plastic, pharmaceutical, chemical, food & beverage, aerospace, mining, oil and gas industries.

Seebach filtration solutions stand for effectiveness, flexibility, sustainability and reliability.

Highest production quality and operational reliability by optimisation of filtration solutions.

Seebach clients profits from our fast and competent service worldwide.

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