



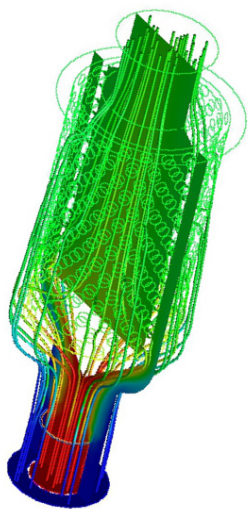
# FLUID DYNAMICS ANALYSIS

## Services offered by Seebach GmbH

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](mailto:simulation@seebach.com)





## High quality filtration solutions

# Seebach GmbH

45 years leading in filtration technology.

Tailor made filtration solutions designed and manufactured in Germany.

Continuous process optimization and innovation for demanding applications in high-performance, mining, plastic, process fluid and oil & gas industries.

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

Optimization of existing filtration solutions to achieve maximum profitability in production.

Competent customer support in short response time worldwide.

## Locations

### Headquarter

#### Seebach GmbH

Neckarweg 3 – 5  
34246 Vellmar / Germany  
www.seebach.com

Phone +49 561 982 97-0  
Fax +49 561 982 97-33  
info@seebach.com

### Europe

#### Seebach Nederland B.V.

Arnhem  
Phone +31 620 247 499  
nederland@seebach.com

#### Seebach Russland

Moskau  
Phone +7 495 502 3003  
russia@seebach.com

#### Seebach Ukraine

Donetsk  
Phone+380 952 569 533  
ukraine@seebach.com

### North America

#### Seebach Filtration USA

Dunbar, WV  
Phone +1 304 720 37 46  
america@seebach.com

### Asia / Pacific

#### Seebach Filter Solutions

India Pvt. Ltd., Shirwal  
Phone +91 (2) 169 244 750  
india@seebach.com

#### Seebach Representative Office

Shanghai, China  
Phone +86 177 1738 9656  
china@seebach.com