

# Filter Aid - Kieselguhr

## Product range BECOGUR®

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**BECOGUR® is a highly pure, active filtration kieselguhr (diatomaceous earth) for precoat filtration. Based on extensive research and practical experience, the shape and size of the kieselguhr particles are optimally controlled to meet ideal filtration properties.**

The specific advantages of BECOGUR®:

- ▶ Economic filtration thanks to specifically formulated kieselguhr grades for each application
- ▶ Careful processing of the material to maintain the original porosity and diverse shapes of the kieselguhr ensures:
  - quick build-up of a stable and reliable filter cake
  - excellent filtration properties
- ▶ Maximum purity, safe to use in accordance with German and EEC regulations and US-FDA (Food and Drug Administration) requirements concerning the production of beverages

### Application

BECOGUR® is used in the following types of filters:

- ▶ Precoat sheet/frame filters with washable support sheets (e.g. BECO ENDURA®)
- ▶ Precoat filters (vessel filters) with horizontal or vertical screen elements
- ▶ Precoat candle filters
- ▶ Rotary vacuum filters for the removal of large quantities of solid matter
- ▶ Chamber filter presses

Suitable BECOGUR® grades are available for different applications:

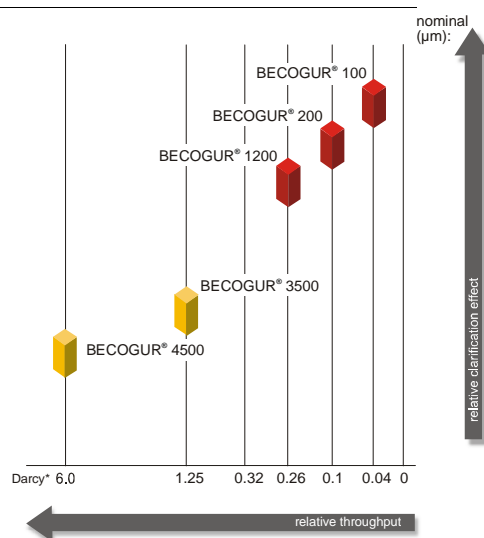
#### BECOGUR® 100

Very fine kieselguhr providing maximum filtration efficiency for "polishing" of beer, wine, oil, pectin, sugar, vinegar, alcohol, gelatine and other liquids of low viscosity.

#### BECOGUR® 200

Fine kieselguhr with high filtration efficiency for fine filtration of beer, wine, gelatine, oil, must, pectin, sugar, vinegar, alcohol and other liquids of low viscosity.

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\*) Permeability is measured in Darcy. One Darcy is equal to 1 ml/s, i.e. the flow through a cube of filtration sheet/filter aid having an edge length of 1 cm with a water column of 1 m of liquid to be filtered.

#### BECOGUR® 1200

Medium fine kieselguhr which offers both together, medium fine clarification characteristics and high throughput values, used therefore especially in the brewing industry. Recommended for special filtration requirements, BECOGUR® 1200 is also successfully applied for products with higher viscosity.

#### BECOGUR® 3500

Coarse kieselguhr for clarifying liquids heavily loaded with turbidities; also ideal for primary precoat.

#### BECOGUR® 4500

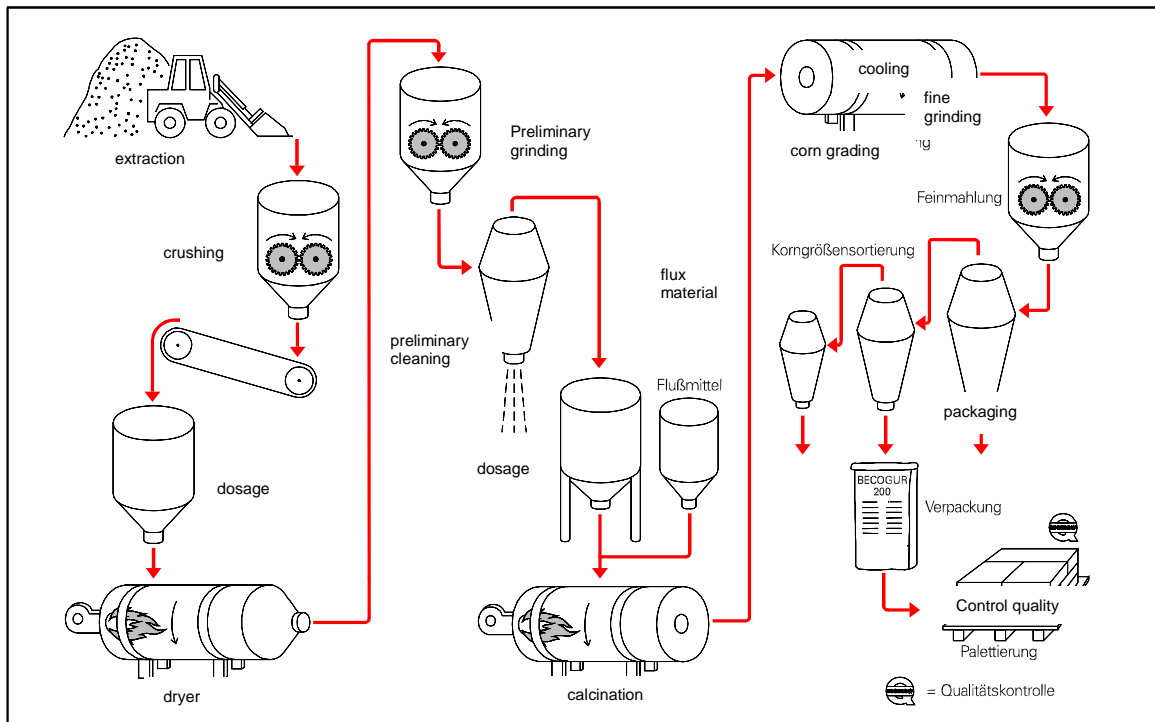
Very coarse kieselguhr for quick clarification of very turbid liquids in new wine, syrup, wort and other very viscous liquids.

Depending on the respective filtration application, it may be advantageous to mix different BECOGUR® grades. Improved filtration performance can frequently be achieved by combination with other filter aids, e. g.

- ▶ BECOLITE® (filtration perlite)
- ▶ BECOCEL® (filter cellulose)
- ▶ BECOFLOC® (filter additive for precoat filtration)

Detailed technical information is available for every product and all applications. Please ask for these leaflets.

## Manufacturing Process of BECOGUR®



### Product Characteristics

BECOGUR® is produced from the siliceous deposits of microscopic diatoms which were formed in various parts of the world about 10 million years ago. The deposits are often several hundreds of metres thick. Crude kieselguhr or diatomaceous earth contains up to 60 % water. During processing the crude kieselguhr is first crushed and then predried.

During calcination in a rotary furnace at temperatures of between 800 and 1200 °C (1472 – 2192 °F) the residual organic substances and undesired soluble trace elements are largely transformed into insoluble compounds. The material is then screened in order to define the optimum particle sizes for the different BECOGUR® grades. During this process a very careful material flow is guaranteed in order to retain the original varied shapes of the delicate kieselguhr particles. BECOGUR® is mostly free from non-filterable components such as fine dust and silica sand.

### Safety

When used properly no negative effects are known. Inhalation of dust is harmful. If dust forms, use an extractor or wear a breathing mask.

An EU Safety Data Sheet is available on request.

account of the substances contained in the filtered liquids. Please observe respective authority regulations.

### Storage

As an active adsorption substance BECOGUR® can adsorb moisture and odours. Therefore it should always be stored in an intact bag in a dry, well ventilated place that is free from foreign odours.

Check odour in aqueous suspension before use.

### Certified Quality

BECOGUR® is monitored constantly in the laboratory to ensure consistently high product quality. These inspections cover technical function criteria as well as chemical purity and approval in accordance with the law governing the production and sale of food.



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