

Perlite Filtration Aid BECOLITE™ 5000



BECOLITE 5000 from Eaton's Begerow Product Line is a coarse, highly pure filtration perlite for the powder filtration of liquids with a high opacity level and for moisture removal from sludge. It is used for drinks and foodstuffs (beer, wine, fruit juices, priming solutions, oil, starch, gelatin, yeast sediments, scouring sediment, beer wort, etc.).

The specific advantages of BECOLITE 5000 perlite:

- Particularly cost-effective due to long filter operating life and high flow capacity
- Formation of a fissure-free, homogenous filter cake guarantees reliable filtration
- Virtually free from non-filtering particles
- Highest possible purity, safe in accordance with German and EU directives

Application

BECOLITE 5000 perlite is used as follows:

- In rotary vacuum filters for continuous separation of large quantities of suspended solids; In accordance with machine manufacturers' instructions
- In tank filter presses for drainage and improving permeability of sludges
- In sheet- and boiler filters for powder filtration in combination with other filtration aids and additives (BECOGUR™ diatomaceous earth, BECOCEL™ filter cellulose, BECOFLOC® filter flakes)
- For base coating in diatomite filtration
- In filter presses for sludge dehumidification. BECOLITE 5000 perlite is stirred into liquid sludge as a drainage aid or deposited on support sheets as pre-coating to improve the clarity of the filtrate

Base Coating

In diatomite filtration

BECOLITE 5000 perlite is mixed with coarse diatomite (e.g. BECOGUR 3500 diatomaceous earth) if required:

4 – 8 lb/100 ft² (0.2 – 0.4 kg/m²);
at least 10 min circulating or until filtrate runs clear.

Flow speed with

sheet filters	7 – 12 gpm/ft ² (3 – 5 hl/m ² /h)
sieve and cartridge filters	12 – 24 gpm/ft ² (5 – 10 hl/m ² /h)

Continuous Dosing

BECOLITE 5000 perlite suspension should be dosed evenly throughout filtration in accordance with the opacity of liquid to be filtered. A continuous and economical differential pressure increase between filter in- and outlet and achievement of required clarity indicate that dosing is being carried out correctly.

Optimization of Pre-Coat Filtration

Improved filtration performance can often be achieved by combining with other filtration aids, e.g.

BECOGUR™ diatomaceous earth

BECOCEL™ filter celluloses

BECOFLOC® filter flakes for pre-coat filtration.

To optimize pre-coat filtration with BECOLITE 5000 perlite we recommend the use of the filtration additive BECOFLOC filter flakes for pre-coating and continuous dosing. This saves on BECOLITE 5000 perlite consumption and improves the clarity sharpness.

Product Characteristics

BECOLITE 5000 perlite is produced from perlite (vulcanized glass) via a process of sudden heating and distension. The perlite particles are standardized to a precisely defined size via grinding and sifting. BECOLITE 5000 perlite is virtually free from non-filtering particles such as fine dust, grit and floaters (= closed pored, floating particles).

BECOLITE 5000 perlite is characterized by a very high wet volume and a resultant filter cake with a high sediment intake capacity.

Safety

When used and handled correctly there are no known unfavorable effects associated with BECOLITE 5000 perlite.

Further safety information can be found in the relevant Material Safety Data Sheet, which can be downloaded from our website.

Storage

As an active adsorbent BECOLITE 5000 perlite can take up moisture and odors. For this reason store only in unopened package in a dry, well ventilated place free from external odors.

Delivery information

BECOLITE 5000 perlite is sold under article no. 35.500 and is supplied in the following package size:

44.1 lb (20 kg) multi-layer valve paper bag

HS Customs Tariff: 3802 9000

Certified Quality

BECOLITE 5000 perlite is continually monitored in the laboratory to ensure consistently high product quality levels.

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For more information, please e-mail us at filtration@eaton.com or visit us online at eaton.com/filtration for a complete list of Eaton's filtration products.

Not all products in Eaton's Begerow Product Line are available in all regions. Please contact your local Eaton office to determine availability.

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