

Filter Aids (Diatomite / Perlite / Cellulose)

Whenever turbidities in the liquid to be cleaned are small and compressible, there is a risk that they settle like a film on the filter and clog it within a very short time. Or they pass through the filter and remain as turbidity in the filtrate or end product. In the filtration with **Voigt - Filter aids**, the filter exclusively serves to carry the precoat and the filter cake. A thin layer of filter aids (usually about 200-800 g/m²) is washed up on the filter as a primary coat (precoat) with clean water or filtered liquid. This precoat protects the filter against pollution and allows a simple and thorough cleaning of the filter. The primary coat also guarantees a clear filtrate at the very start of the filtration. But only the continuous addition of filter aids to the product to be filtered ensures the highest possible productivity and efficiency of the filtration process. Depending on the type and quantity of the contamination, we normally recommend the same amount of filter aids as solids are to be removed from the product to be filtered.

CELITE - Diatomite

The most common filter aid is diatomite. It is prepared from very high quality diatomaceous sediments. Optimum clarification, even for slimy colloidal turbidities of less than 0.1 µm on the one hand and highest possible throughputs on the other hand are the conditions which must be met through the selection of the appropriate diatomite. Maximum purity and chemical inertness with a uniform quality of the diatomite guarantee that the product to be filtered is not deteriorated in terms of its chemical composition, taste or smell.

Standard range CELITE - diatomite
(from fine to coarse)

Filter-Cel, Celite 577, Standard Super-Cel, Celite 512, Hyflo Super-Cel, Celite 503, Celite 535, Celite 545, Celite 560

HARBORLITE - Perlite

Harborlite perlite filter aids are made from volcanic obsidian rock by thermal expansion. Chemically speaking, it is an aluminum silicate which is almost as inert as diatomite. In terms of their structure perlite corresponds to spherical fragments which do not have the same porosity as the filigree skeleton of the diatoms. Consequently, perlite cannot be expected to have the same clarification effect with the same throughput as diatomite. Nevertheless, the high-quality perlitites represent a useful supplement to the diatomite program.

Standard range HARBORLITE - Perlite
(from fine to coarse)

Harborlite 300, 400, 500, 635, 800, 900, 900 S

JELUCEL - Cellulose

High-purity, white, odorless cellulose preferably used in highly alkaline applications in chemical / electroplating industries instead of diatomite or for the general primary coat formation on precoat filters in the beverage and food industry. The dense and cloth-like precoat adheres to the filter and prevents the penetration of diatomite or perlite filter aids when the pressure fluctuates.

Standard range JELUCEL - Cellulose
(from fine to coarse)

Jelucel HM 30, 90, 150, 200, 300, 1000, 2000

Applications

- ✓ Water treatment
- ✓ Chemical / pharmaceutical industry
- ✓ Electroplating / surface engineering
- ✓ Beverage and food industry
- ✓ Paint and coatings industry
- ✓ Circuit board industry