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AKPER PERLIT MINING
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FILTER AID FP10 SERIES G12

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Product

Perlit Filter Aid FP10 SEIRS'

FP10 G12

TYPICAL PHYSICAL PROPERTIES

Product type	Perlite
Colour	Off-white
Physical Form	White Powder
Used For	Filter aid, Filtration of liquids
Bulk Density (kg/m3)	150
Permeability (darcy)	2,6
Cake Density (g/l)	170-190
Floaters (% by volume)	42
Moisture (% as shipped)	%1
pH	6-8,5

TYPICAL CHEMICAL PROPERTIES (% by weight unless otherwise stated)

SiO	71
AL2O3	12
K2O	5
NA2O	3
MgO	0,1
CaO	0,8
Fe2O3	0,5
TiO2	0,09
Loss of Ignition	3

SIEVE ANALYSIS %

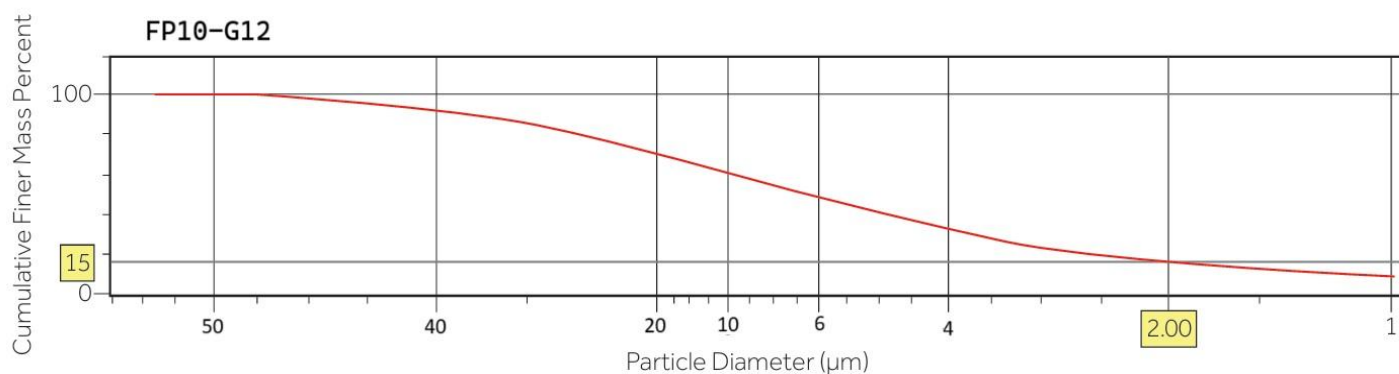
Micron	Passing %
200	0.4
125	4.4
106	6.5
75	8.1
50	10.6
-45	70

By definition, FP10 filter aids an agent consisting of solid particles that improves filtering efficiency by building up a porous, permeable and rigid lattice structure. The filter cake that retains solid particles and also helps flow control. The septum, usually screen or cloth, serves principally as a support for the filter cake. FP10 filter aid forms a porous layer on the septum and becomes the filtering medium that traps the solids and prevents them from blinding the septum. Irregularly shaped particles interlace and overlay leaving open spaces billions of microscopically interstices between the filter aid particles. The size of these openings is so minute that the unwanted solids are strained from the liquid, and the sheer number of openings compensates for their small size, resulting in fast flow rates and brilliant clarity.

The thickness of the precoat is between 1.5 to 3.0 mm, thus 1.5 to 3 L of wet FP 10 filter aid are needed to coat about 1 m² of septum surface F [1].

In any case, precoat characteristics can only be determined after the implementation of experiments under realistic filtration conditions.

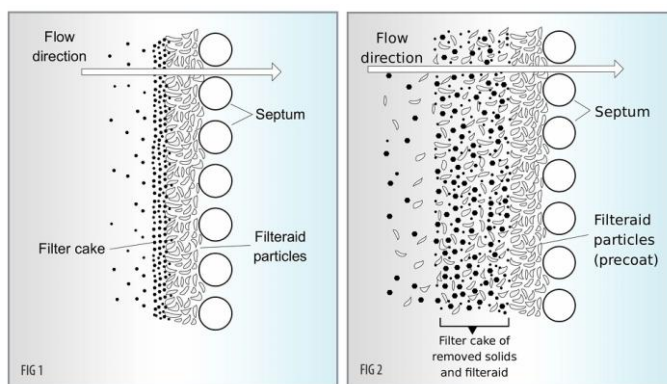
CUMULATIVE FINER MASS PERCENT vs. DIAMETER



FP10 Filter aids may be applied either as precoat on the septum and/or as body feed in the liquid. As precoat, Siaba filter aid can be applied as a thin layer over the filter before the suspension is pumped to the apparatus. A precoat prevents the suspension particles from becoming so entangled in the filter medium that its resistance becomes excessive. Further, it facilitates the removal of cake at the end of the filtration cycle.

Figure 1 • FP10 as precoat applied at the surface of the septum that can be metallic screen or cloth.

Figure 2 • Combined use of FP10 filter aid as precoat on septum and as suspension in liquid.





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Health & Safety

FP10-G12 filter aid is suitable for codex. it's an inert, non-crystalline material of aluminosilicate composition that does not impart taste, odor or color. It is listed in the US Food Chemicals Codex and in relevant EU regulations, while its use in feedstuff is widespread. Perlite FP10-G12 filter aid is Generally Recognized as Safe (GRAS) for use in food processing.

HIGH FLOW RATES

Due to their unique physical structure, perlite filter aids offer higher flow rates with excellent clarity. These are particularly applicable to high-consistency liquids such as syrups or gelatinous slurries. Efficiency, clarity, and flow rates can be further increased by using perlite filter aids.

VARIETY ACROSS ALL THE DIFFERENT DEGREES

A variety of different grades available to meet the flow rates and clarity requirements required for use in almost every industry.

MAIN AREAS OF USE

- Edible Oils filtration, bleaching and dewaxing
- Filtration of sweet corn (glucose/dextrose production)
- Fruit Juices, sugar juice, Strained Sugar Sherbet.
- Drinking Water filtration.