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SIBA FILTER AID

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FP10 SERIES

G05

**MADE IN TURKEY**

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Product

Perlit Filter Aid FP10 SEIRS'

SIBA FP10 G05

#### TYPICAL PHYSICAL PROPERTIES

Product type	Perlite
Colour	Off White
Physical Form	Off White Powder
Used For	Filter aid, Filtration of liquids
Bulk Density ( kg/m <sup>3</sup> )	110
Permeability ( darcy)	2,6
Cake Density (g/l)	170-190
Floater ( % by volume)	42
Moisture (% as shipped)	%1
Ph	6-8,5

#### TYPICAL CHEMICAL PROPERTIES (% by weight unless otherwise stated)

SiO <sub>2</sub>	71
Al <sub>2</sub> O <sub>3</sub>	12
K <sub>2</sub> O	5
Na <sub>2</sub> O	3
MgO	0,1
CaO	0,8
Fe <sub>2</sub> O <sub>3</sub>	0,5
TiO <sub>2</sub>	0,09
Loss of Ignition	3

#### SIEVE ANALYSIS %

Micron	%
243	5.4
154	11.4
100	28.3
74	25.8
50	18.7
-50	10.4

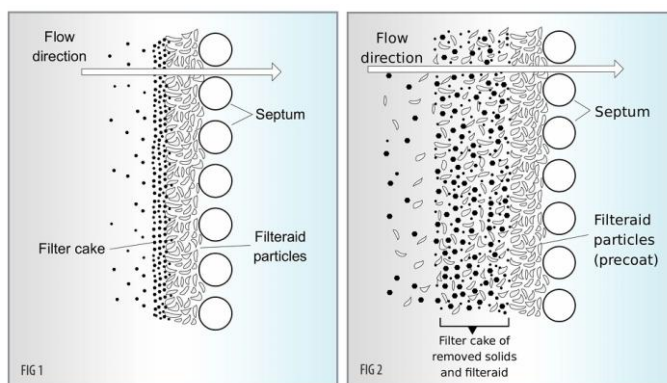
By definition, SIBA FP10 is an agent consisting of solid particles that improves filtering efficiency by building up a porous, permeable and rigid lattice structure. The filter cake that retains solid particles and also helps flow control. The septum, usually screen or cloth, serves principally as a support for the filter cake. SIBA 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 Siba FP 10 filter aid are needed to coat about 1 m<sup>2</sup> of septum surface [1]. In any case, precoat characteristics can only be determined after the implementation of experiments under realistic filtration conditions.

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

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



## Health & Safety

Siba filter aid is 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 Siba filter aid is Generally Recognized as Safe (GRAS) for use in food processing.

## MAIN AREAS OF USE

- Vegetable Edible Oils filtration
- Fruit Juices, Beer, Strained Sugar Sherbet and Antibiotics Pectin filtration.
- Soda Ash Melts, Citric Acid, Sulfuric Acid and Sodium Silicate Filtration.
- Paper Industry (White Water) Filtration.
- Phosphoric Acid Filtration.
- Mineral Oil Filtering.
- Water of Swimming Pools and Waste Water filtration.
- Drinking Water Filtration.