

Filter Aid CELATOM® FW-14

Diatomaceous Earth, Coarse

CELATOM FW-14 diatomaceous earth is a coarse diatomaceous earth for clarifying liquids heavily loaded with turbidities in the food and beverage industry. It is also ideally suited for primary pre-coating.

The specific advantages of CELATOM FW-14 diatomaceous earth:

- High clarification sharpness through special particle size distribution
- Optimum dirt holding capacity
- Reliable filtration through rapid formation of an adherent filter cake
- Economic due to the optimum ratio of flow rate and clarification sharpness
- Maximum purity, safe to use in accordance with German and EU regulations and US-FDA (Food and Drug Administration) requirements concerning the production of beverages

Technical Properties

Type	Unit	Celatom FW-14	in comparison BECOGUR 3500
Article No:		38014020	37350020
Permeability	Darcy	1,1 - 1,8	1,1 - 1,8
Wet density	g/ltr	< 360	< 360
Dry solid content	%	> 99	> 99
Ash content	%	> 99,5	> 99,5
Fe, EBC Method	ppm	< 100	< 100
Ca, EBC Method	ppm	< 350	< 350
Al, EBC Method	ppm	< 100	< 100
As, EBC Method	ppm	< 10	< 8

Application

CELATOM FW-14 diatomaceous earth is used for diatomaceous earth filtration in the following filter devices:

- Pre-coat sheet/frame filters with washable support sheets, e.g. BECO® ENDURA® support sheets
- Pre-coat filters (vessel filters) with horizontal or vertical screen elements
- Cartridge filters with vertical filter cartridges
- Rotary vacuum filters for separating larger solid quantities, according to the machine manufacturer's specifications
- Filter presses for sludge dehumidification: CELATOM FW-14 diatomaceous earth is mixed into the liquid sludge as a drainage aid or added as a pre-coat for improving filtrate clarification



Powering Business Worldwide

Optimization of Pre-Coat Filtration

Filtration performance can frequently be improved by combining CELATOM diatomaceous earth with other filter aids, e.g.

BECOLITE™ filtration perlites,
BECOCEL™ filtration cellulose fibers,
BECOFLOC® pre-coat filter additives.

Product Characteristics

Diatomaceous earth is produced from the siliceous deposits of microscopic diatoms. The powdery CELATOM FW-14 diatomaceous earth is produced by mixing specially selected particle sizes. It is largely free from non-filtering components such as fine dust and silica sand.

Safety

When used and handled correctly, there are no known unfavorable effects associated with CELATOM FW-14 diatomaceous earth. Inhalation of dust is harmful. If dust forms, use an extractor or wear a breathing mask.

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

Storage

As an active adsorption substance, CELATOM FW-14 diatomaceous earth can adsorb moisture and odors. Therefore, it should always be stored in an intact bag in a dry, well-ventilated place that is free from foreign odors.

Check odor in aqueous suspension before use.

Delivery Information

CELATOM FW-14 diatomaceous earth is sold under article no. 38.014 and is supplied in the following package size:

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

Certified Quality

CELATOM FW-14 diatomaceous earth is monitored constantly in the laboratory to ensure consistently high product quality.

CELATOM® is a registered trademark of EP Minerals® A U.S Silica Company.

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