

Compakcel

Filtering agent for pre-coating.

FEATURES

Compakcel is a filtration aid for use in the realization of the precoat, before the start of the filtration, improving its formation.

Other Compakcel features:

- Increased filtration efficiency.
- Improves the stability of the prelayer during filtering and the weight performance of the filtrate.
- Rapid wetting reducing precoat formation time.
- Homogeneous distribution of the pre-layer over the entire filter surface.
- High adsorbent power of moisture and suspended colloids, thanks to the high specific surface area of the product and its special surface chemistry.
- Resistance to pressure shocks, especially in vertical plate filters.
- Easy separation of the pre-layer at the end of filtration, even in automatic discharge filters.

APPLICATION

Some of Compakcel's applications are:

- Removal of moisture and solids in edible oils.
- Removal of moisture and solids in industrial oils.
- Filtration of juices and concentrates.
- Removal of fats in aqueous liquids.
- Roughing filtration in general food liquids.
- Filtration auxiliary in the pharmaceutical industry and in the chemical industry.

COMPOSITION

Compakcel 100 and 300: calcined diatom and cellulose fibers.

Compakcel Oleo: perlite and cellulose fibers.

Compakcel Oleo Max: calcined diatom and cellulose fibers.

DOSAGE

Conditions	Precoat ¹	Dosage ²
Very difficult liquid	2 kg/m ²	0.8 – 1g/l
Difficult liquid	1.5 kg/m ²	0.5 – 0.8 g/l
Normal fluid	1.0 kg/m ²	< 0.5 g/l

¹ quantity of Compakcel per m² of filtering surface.

² amount of Compakcel per liter of liquid passed through the filter.

HOW TO USE

Prelayer Formation

Add the necessary amount of Compakcel (see section Dosage for use) to the filter mixing tank and keep it in agitation for 3-5 min., to ensure a good dispersion of the product. Proceed to the formation of the pre-layer, recirculating through the filter to the mixing tank for 20-25 min. (in the case of Compakcel Oil keep it for 40-45 min.) at fast speed. During the formation of the prelayer maintain pressure at 1-1.5 Kg/cm². Important: create a pre-layer of approximately 5 mm. thick. Like most filtration aids, it can be used by making a pre-coat by alluvial.

Filtration

In filters with a dosing pump, once the prelayer has been formed, add to the mixing tank the amount of Compakcel (see section Doses of use) necessary to filter. Maintain pressure during the cycle pressing between 1-2 Kg/cm², opening the pump bypass as necessary.

PHYSICAL APPEARANCE

Slightly beige white powder with a fibrous texture.

PRESENTATION

Compakcel 100: 25 kg bags. 700 kg pallets.

Compakcel 300: 25 kg bags. 700 kg pallets.

Compakcel Oleo: 10 kg bags. 500 kg pallets.

Compakcel Oleo Max: 10 kg bags. 500 kg pallets.

PHYSICOCHEMICAL PROPERTIES

	EP 162 (rev.6)	EP 163 (rev.6)	EP 343 (rev.5)	EP 413 (rev.3)
Compakcel	100	300	Oil	Oil Max
Humidity [%]	< 5	< 5	< 5	< 5
Granulometry [<150 microns][%]	> 90	> 90	> 90	55 - 65
Cake density [g/l]	350 – 400	350 – 400	180 – 230	120 – 170
Permeability [Darcy]	0.7 – 1.0	0.1 – 0.4	2.0 – 4.0	2.0 – 6.0
Ashes [%]	80 – 90	75 - 85	55 - 65	55 - 65

RGSEAA: 31.00391/CR

Product in accordance with the International Oenological Codex and Regulation (EU) 2019/934 and subsequent amendments.