

RHOCELL™

Predispersed precoat for filtration

PREDISPERSION

The predispersion technique, first set up by Dal Cin in 1983, increases the pre-coat efficacy.

The method of cellulose processing, open the fibres and keep them opened inserting water molecules between the microfibrils. So the pre-coat is wet: we call it "predispersed form".

Compared to traditional products the predispersed one has a higher adsorbing/filtering specific surface and its dispersion into a liquid (water, wine, juice) is definitely easier.

As far as the preservability of the product is concerned, Dal Cin successfully use exclusively and strictly physical techniques, applied "on line", avoiding any addition of chemicals to the product.

RHOCELL

Rhocell is the latest product created by Dal Cin after several years of researches and study concerning cellulose fibre.

This product is manufactured using the predispersion technique.

The selected cellulose fibre possesses unique grid structure with a very elastic and soft form which has a very high swelling power in polar liquids.

This is an essential factor for good distribution and uniformity of the precoat and particularly for reducing the rates.

Rhocell uniformly stratifies on the filter elements, both horizontal or vertical, and is easily and completely removed at the end of the filtration.

This product shows four major advantages:

- 1) extremely easy dispersion into polar liquids (wine, beer, juice, water, alcoholic beverages, etc.) with minimal sedimentation;
- 2) high filtering capacity (retention and flow-rates);
- 3) gives a stable filter cake on the screen and is easy to remove completely at the end of the filtration;
- 4) reduced rates with resultant cost savings both of the product and reduced waste disposal.

APPLICATION

Rhocell should be used in conjunction with diatomaceous earth to establish a filter cake for clarifying and polish filtration.

Extensive trials have shown that **Rhocell** in addition to the removal of solid, also results in a significant reduction in yeast charge.

This pure cellulose is completely inert, and its very elastic structure means it can withstand high differential pressure without compromising the filtration results. Small amounts of **Rhocell** with the body-feed during the filtration will improve the capacity of the cake to retain solids.

Rhocell not only acts to protect the filter element from the migration of filter aids, but due to its high adsorbing surface area (approx. 15 m²/g), it is an active filter media.

This, combined to the highly elastic grid structure, results in greater effectiveness of the depth filtration.

Rhocell is available in three versions:

- Rhocell Largo** for coarse filtration
Rhocell DC for polishing filtration
Rhocell Super for very fining filtration

DOSAGE AND USE

Use approximately 1 kg of **Rhocell** per m² to reach the sufficient consistency for the filtration.

The product is easy to be dispersed in the liquid to be filtered.

During filtration **Rhocell** remains strongly attached to the filter elements, even in cases of pressure drop or temporary filter-clogging. It will tolerate very high limits of differential pressure.

PACKAGING

5 kg PE bags into 20 kg box.

PROPERTY TABLES

composition	alpha-cellulose 100%
kind of fibre	short
kind of product	predispersed (33% dry matter)
ash residue	<1%
dispersion in polar liquids	easy and fast
application field	wine, juice, beer, vinegar
filtration results	polishing /pre-sterilization
waste cake clearing	immediate