



Product-Description

Akticol FA-UF is a chemically activated, highly efficient activated carbon powder of vegetable origin. It is derived from wood. Composition and purity of this carbon allow a particularly abrasion-resistant, gentle and careful application when used in combination with crossflow filtration systems. Akticol FA-UF is highly efficient, which means, lower dosages can be used and thus, the risk of wearing out of processing plants is further minimized. When developing this activated carbon, its selective polyphenol stabilizing and its decolourizing capacity in apple juice were specially considered. Permitted according to the laws and regulations currently in force in the EU. Purity and quality are proved by specialized laboratories.

Aim of Treatment

- colour reduction in deep-coloured, oxidized juices and decolouration
- polyphenol stabilisation for the production of particularly stable fruit juice concentrates
- adsorption of brownish colour pigments derived from Maillard reactions
- carbon application in combination with crossflow filtration, i.e., in the ultrafiltration cycle without prior separation

Product and Effect

Akticol FA-UF is a high degree acid-activated active carbon of vegetable origin. This carbon type can also be applied very well when making fruit juices of which extremely high purity is required, for instance, baby food. Innovative criteria are considered for the production of Akticol FA-UF which is the reason for its excellent technological effect. When compared with other activated carbons, Akticol FA-UF assures a gentle application with regard to juice filtration over crossflow systems. Due to the special carbon effectiveness, it is possible in many cases to considerably reduce dosages as against conventional activated carbons.

Dosage and Application

An activated carbon treatment in clarified juice is always more effective than in the cloudy juice because of the high amount of sediments contained in the raw material clogging the carbon pores. When however, the cloudy juice is treated to save a filtration process, dosage is made before the addition of the other treatment agents, probably together with the pectinases and amylases.

Generally a temperature range of 45 - 55 °C and sugar of maximally 30° Brix are suitable. If treatment temperatures fall below 20 °C, a maximum of 20° Brix should not be exceeded. Stir in intervals to assure that the activated carbon is kept in suspension during treatment. A treatment period of 30 - 60 minutes is sufficient.

Provided Akticol FA-UF is homogeneously mixed with the cloudy juice, it can be fed directly into the crossflow system without further treatment. As one chooses, partial separation is conducted by sedimentation and filtration.

The required dosage for treatment depends on the material to treat and on the concentration of the substances to remove. Not to stress the juice unnecessarily and to avoid undesirable reactions and elimination of substances, pretests have to be conducted in any case. It is especially important to choose the suitable activated carbon and the appropriate process.

Storage

Protect from moisture and foreign odours. Reseal opened packagings immediately and tightly.

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Our technical product leaflets and the treatment recommendations they contain, are based on our current knowledge and experience and we make all reasonable efforts to ensure the accuracy of the information it provides. But since pre-treatment is mostly unknown to us and moreover imponderabilities with regard to the natural products to treat have to be taken into consideration, the advice given provides general information and serves for your consultation. Without a separate, written statement from our side on a defined matter or problem, the information provided should not be relied upon as legal advice or regarded as a substitute for legal advice and is without liability. The information provided is in accordance with the law in force of the Federal Republic of Germany and the EU. In addition, our general terms of business apply.

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