

Product Description

The individual Ercarbon types are pulverized activated carbons of vegetable origin with correspondingly varied inner surface, thus selective adsorptive power.

Permitted according to the presently valid laws and regulations. Purity and quality are proved by specialized laboratories.

Aim of Treatment

Dependent on the aim of treatment, the individual Ercarbon types are applied as follows:

Treatment aim	Product
Reduction of off-colours due to browning reactions (deep-coloured juices)	Ercarbon FA
Extremely light, shelf-stable and colour stable concentrates	Ercarbon FA and Ercarbon SH
Lowering of HMF	Ercarbon SH
Adsorption of plant protection products and off-tastes	Ercarbon SH

**Selectively acting
activated carbon
powders**

Product and Effect

Ercarbon activated carbons are specifically selected to fulfil the requirements of juice treatment. Different raw materials of vegetable origin and activation techniques are employed for the production which results in selective adsorptive power for the removal of disturbing substances. The Ercarbon and Granucol® activated carbons can be applied even when purity requirements for fruit juice are very high, for instance when used for babyfood products.

Dosage and Application

An activated carbon treatment in a clarified juice is always more efficient than a treatment in a cloudy juice, because the substances to eliminate are partially bound to the sediments separated in the course of clarification, or they have already been fined out by gelatin, as is the case with polyphenol precipitation. Thus the best results are achieved by treating the filtrate; even treatment of the sediment-reduced, drained off fining supernatant is already of advantage. Should however the necessity arise to treat the cloudy juice to save a filtration process, dosage is made before addition of the other treatment agents.

In principle, it is advisable to work at temperatures of approx. 45 – 55 °C and sugar concentrations of max. 30 °Brix. When treatment temperatures are below 20 °C, 20 °Brix should not be exceeded. To keep the activated carbon in suspension during treatment, it is recommended to stir at least in intervals. Reaction times of 30 – 60 minutes are sufficient.

The necessary dosage depends on the media to treat and the concentration of the substances to eliminate (see the special Erbslöh edition „juice compendium“/ special application of activated carbon). To avoid the juice to undergo unnecessary stress and undesired reactions and/or removal of substances, fining pretests should be carried through in advance. It is of particular importance to choose the adequate activated carbon and treatment method.

To determine the optimum dosages for treatment, it is equally recommended to carry out pretests.

Storage

Protect from influences of odour and humidity. Reseal opened packagings immediately and tightly.