

Beverage Stabilization
SIHA® Activated Carbon PF-UF

SIHA Activated Carbon PF-UF fining agent is an activated carbon of plant origin developed by combining different activation processes for the correction of color defects, undesired aroma and flavor substances and Patulin* in beverages. It is used in ultrafiltration (UF) systems. SIHA Activated Carbon PF-UF fining agent has an ideal grain size distribution for protecting the membranes, pumps and piping of the UF system. It has very high adsorption capability for colorants and polyphenols and therefore offers high performance at low dosage.

The specific advantages of SIHA Activated Carbon PF-UF fining agent:

- Adsorption of undesirable colorants in beverages with high coloring or beverages that have become brown
- Adsorption of undesirable tannins
- Adsorption of undesired aroma and flavor substances and Patulin in beverages
 - ➔ Combination product for a „One-Step“ application
- Use in UF filtration processes possible

Application

It is advisable to determine the quantity of SIHA Activated Carbon PF-UF fining agent required in a preliminary test. Pre-mix this quantity then with a small quantity of beverage in order to achieve full wetting of the powder. Then add the whole container while stirring. Stir for 15 – 20 minutes, depending on the effectiveness of the stirrer. The activated carbon is subsequently separated through ultrafiltration.

Application areas

- Color correction in juices with high coloring or juices that have become brown
- For stabilization and decolorization of fruit juices
- Adsorption of undesired aroma and flavor substances
- Reduction of Patulin (< 50mg/L)

* **NOTE:** Juices with a Patulin content > 50 µg/l are not marketable and may not be subsequently treated marketable.

The required quantity can be determined in preliminary tests with 3.38 fl oz (100 ml) of beverage. Use a 5% suspension of SIHA Activated Carbon PF-UF fining agent for this purpose. Increasing quantities of the suspension are then pipetted into 3.38 fl oz (100 ml) of beverage.

0.007 fl oz (0.2 ml) of the 5% suspension in 3.38 fl oz (100 ml) of beverage corresponds to a required dose of 0.83 lb/1,000 gal (10 g/hl).

The preliminary tests are carried out according to the following scheme.

SIHA Activated Carbon PF-UF suspension fl oz/gal (ml/100 ml)	Corresponding quantity to be added to the beverage lb/1,000 gal (g/hl)
0.51 (0.4)	1.67 (20)
1.02 (0.8)	3.34 (40)
1.54 (1.2)	5.01 (60)
2.05 (1.6)	6.68 (80)
2.56 (2.0)	8.35 (100)

Stir the fining mixtures intensely and subsequently filter via an adequately pre-wetted fluted filter. Discard the first 0.34 fl oz (10 ml) of the filtrate.

Safety

When used and handled correctly, there are no known unfavorable effects associated with SIHA Activated Carbon PF-UF fining agent.

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

Storage

SIHA Activated Carbon PF-UF fining agent is suitable for storage. Due to the high adsorption capability of the carbon it must be stored in a dry, cool, well-ventilated, and odor-neutral place. After opening, the pack should be sealed properly and used up as quickly as possible.

Delivery Information

SIHA Activated Carbon PF-UF fining agent is sold under article no. 63.111 and is available in the following package size:

44.09 lb (20 kg) paper bag

Certified Quality

During the production process, SIHA Activated Carbon PF-UF fining agent is regularly monitored to ensure consistently high product quality. These tests cover technical function criteria as well as conformance with the relevant laws governing the production and sale of foodstuffs. Strict controls are carried out immediately before and during final packaging.

North America

44 Apple Street
Tinton Falls, NJ 07724
Toll Free: 800 656-3344
(North America only)
Tel: +1 732 212-4700

Europe/Africa/Middle East

Auf der Heide 2
53947 Nettersheim, Germany
Tel: +49 2486 809-0

Friedensstraße 41
68804 Altlußheim, Germany
Tel: +49 6205 2094-0

An den Nahewiesen 24
55450 Langenlonsheim, Germany
Tel: +49 6704 204-0

China

No. 3, Lane 280,
Linhong Road
Changning District, 200335
Shanghai, P.R. China
Tel: +86 21 5200-0099

Singapore

100G Pasir Panjang Road #07-08
Singapore 118523
Tel: +65 6825-1668

Brazil

Rua Clark, 2061 - Macuco
13279-400 - Valinhos, Brazil
Tel: +55 11 3616-8400

**For more information, please
email us at filtration@eaton.com
or visit www.eaton.com/filtration**

EN
1B5.324
09-2018

© 2018 Eaton. All rights reserved. All trademarks and registered trademarks are the property of their respective owners. All information and recommendations appearing in this brochure concerning the use of products described herein are based on tests believed to be reliable. However, it is the user's responsibility to determine the suitability for his own use of such products. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Eaton as to the effects of such use or the results to be obtained. Eaton assumes no liability arising out of the use by others of such products. Nor is the information herein to be construed as absolutely complete, since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.



Powering Business Worldwide