

Beverage Clarification and Stabilization SIHA PURANIT™ UF



SIHA PURANIT UF fining agent from Eaton's Begerow Product Line is a low sand bentonite that was specially developed for ultrafiltration systems. This product protects the membranes, pumps and piping of the UF system. In addition, it offers highly effective clarification and stabilization of fruit juice.

The specific advantages of SIHA PURANIT UF fining agent:

- Low sand content
- Protection for the whole system
- Maximum clarification and stabilization capability

Application

SIHA PURANIT UF fining agent can either be used on its own for protein stabilization, or it can be used as an auxiliary clarification agent in combination with gelatin/silica sol prior to fining. Due to the high activity of SIHA PURANIT UF fining agent, lower dosages are required compared with conventional bentonites.

The high clarification and adsorption effect of bentonite is based on swelling of the individual bentonite particles, which increases the internal surface many times over. In order to achieve this SIHA PURANIT UF fining agent should be mixed in water (1 part in 10 – 15 parts of water). SIHA PURANIT UF fining agent will swell within a few hours while the mixture is stirred occasionally (we recommend preparing the mixture the day before the fining). If water at 122 – 140 °F (50 – 60 °C) is used, the swelling time can be reduced to approx. four hours. In order to achieve maximum activity we recommend using demineralized water. Excess water should be decanted prior to application.

While pre-swelling in water is not crucial, without this step a higher dosage will be required, since without time for swelling the bentonite will settle quickly.

After swelling, add the bentonite to the product to be fined under intense stirring until uniform distribution is achieved in the whole container. SIHA PURANIT UF fining agent intensely and speedily adsorbs protein and trub, and quickly leads to clarification of the product. The solids that are generated can be processed without problem via a rotary filter with an admixture of 0.5 – 2% BECOCEL™ 2000 filter cellulose and/or BECOLITE™ 5000 perlits.

Dosage

It is advisable to determine the required bentonite quantity in a preliminary test. Depending on the application the following dosage range is likely to be appropriate, although the precise value should be determined by means of a bentonite test and a heat/cold test:

Dosage: 2.09 – 12.52 lb/1,000 gal (25 – 150 g/hl)

Safety

When used and handled correctly, there are no known unfavorable effects associated with SIHA PURANIT 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 PURANIT UF fining agent is produced with extreme diligence. Since SIHA PURANIT UF fining agent is a highly effective adsorbent, it must be stored in a cool and dry place, and protected from foreign odors. Seal the pack properly after opening.

Delivery Information

SIHA PURANIT UF fining agent is sold under article no. 61.309 and is available in the following package size:

33.07 lb (15 kg) bag

HS Customs Tariff: 2508 10 00

Certified Quality

During the production process, SIHA PURANIT UF fining agent is regularly monitored to ensure consistently high product quality. Strict controls are carried out immediately before and during final packaging.

North America - HQ

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

Europe/Africa/Middle East

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

Internormen Product Line

Friedensstraße 41
68804 Altlusheim, Germany
Voice: +49 6205 2094-0

Begerow Product Line

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

Brazil

Av. Julia Gaioli, 474 - Bonsucesso
07251-500 - Guarulhos
Brazil
Voice: +55 11 2465 8822

China

No. 7 Lane 280 Linhong Road,
Changning District,
Shanghai 200335, China
Voice: +86 21 5200 0422

Singapore

4 Loyang Lane #04-01/02
Singapore 508914
Voice: +65 6825 1668

For more information, please e-mail us at filtration@eaton.com or visit us online at eaton.com/filtration for a complete list of Eaton's filtration products.

Not all products in Eaton's Begerow Product Line are available in all regions. Please contact your local Eaton office to determine availability.

© 2013 Eaton Corporation. 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

EN
1 B 5.2.9
03-2013