

## 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 fining agent can be used alone either for stabilizing protein or in combination as a clarification aid prior to gelatin silica sol fining. Due to its high activity, lower quantities are usually required in comparison to conventional bentonites when SIHA PURANIT fining agent is used.

The high clarification and adsorption effectiveness of bentonite is based on the swelling properties of the individual bentonite particles. This increases the size of the inner surface many times over. In order to achieve this effect, SIHA PURANIT fining agent should be vigorously stirred into a volume of water 3 to 5 times the quantity of SIHA PURANIT until the powder is completely suspended. When stirred occasionally, SIHA PURANIT fining agent will swell completely within a few hours (it is best to set the batch the day before fining). If water at 122 – 140 °F (50 – 60 °C) is used, the swelling time can be reduced to approx. four hours. Supernatant water which may arise can be poured off.

Although it is generally possible to use bentonite without pre-soaking, the quantity required will increase since it has practically no time to swell.

The soaked bentonite is added to the product to be fined stirring constantly until it is uniformly distributed in the batch. SIHA PURANIT fining agent intensively and rapidly adsorbs protein and sediment while quickly clarifying the product. The resulting sediment can be regenerated without difficulty by mixing in 0.5 – 2% of BECOCEL™ 2000 filter cellulose and/or BECOLITE™ 5000 perlites using a rotary filter or a sediment frame filter.

### 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

### 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.



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