

# Beverage Clarification and Stabilization

## SIHA PURANIT<sup>®</sup> UF

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SIHA PURANIT<sup>®</sup> UF is a sand-free 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<sup>®</sup> UF are:

- ▶ Sand-free
- ▶ Protection for the whole system
- ▶ Maximum clarification and stabilization capability

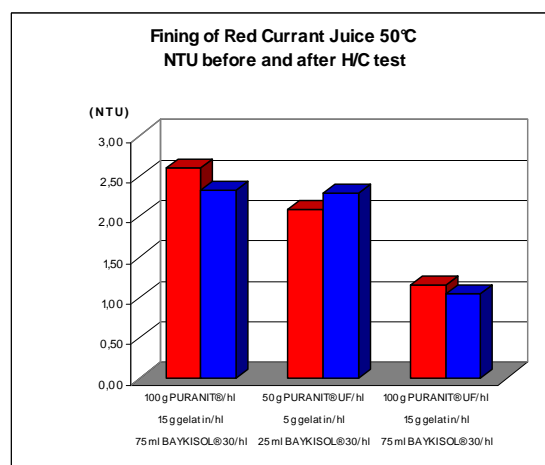
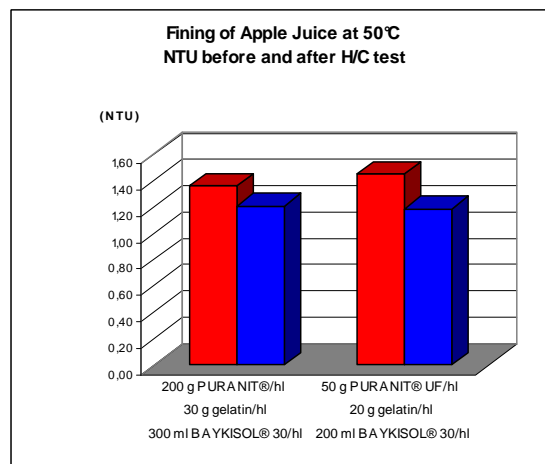
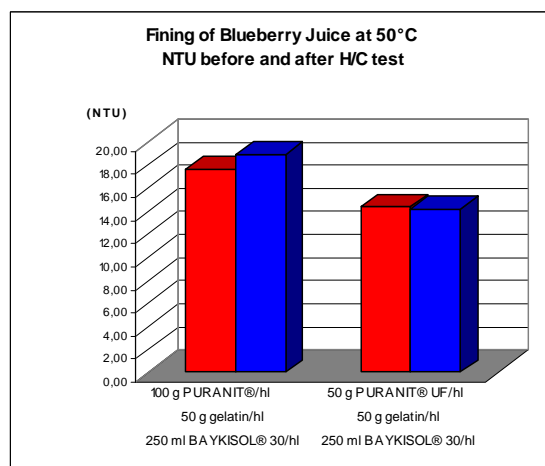
### Application

SIHA PURANIT<sup>®</sup> UF 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<sup>®</sup> UF, 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<sup>®</sup> UF should be mixed in water (1 part in 15 – 20 parts of water). SIHA PURANIT<sup>®</sup> UF 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 50 – 60 °C is used, the swelling time can be reduced to approx. 4 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<sup>®</sup> UF intensely and speedily adsorbs protein and trub, and quickly leads to clarification of the product. The trub that is generated can be processed without problem via a rotary filter with an admixture of 0.5 – 2 % BECOCEL<sup>®</sup> 2000 and/or BECOLITE<sup>®</sup> 5000.



## Dosage

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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: 25 – 150 g/hl

## Safety

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When used and handled correctly, there are no known unfavorable effects associated with SIHA PURANIT® UF. Further safety information can be found in the relevant EC Material Safety Data Sheet, which is available on request.

## Storage

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SIHA PURANIT® UF is produced with extreme diligence. Since SIHA PURANIT® UF 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

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The article number for SIHA PURANIT® UF is 61.304. It is supplied in the following packaging units:

25 kg bag made from several layers of paper with aluminum liner

HS customs tariff: 38029000

## Certified Quality

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During the production process SIHA PURANIT® UF 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.



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