

Stabilization

SIHA® Gum Arabic Granulate

SIHA Gum Arabic Granulate stabilizer is a micro-filtered gum arabic produced from high-quality Arabic rubber. It is comprised mainly of polysaccharides and is traditionally used as a protective colloid against copper or iron turbidities in combination with citric acid (0.03 – 0.04 lb/1,000 gal (0.3 – 0.5 g/hl)), or for crystal stabilization in combination with metatartaric acid.

Special characteristics of SIHA Gum Arabic Granulate stabilizer:

- Micro-filtered, therefore pure and stable
- Highly soluble
- Improves the roundness of wine
- Also suitable for white and rosé wine
- Low colmation index

Application

The colloidal substances present in wine are polysaccharides, polypeptides, and polyphenols. The arabinogalactan fraction of the gum arabic forms a film around these particles. The negative load of all particles prevents them from coming into contact with each other. A protective colloidal network is thus formed, in which sedimentation of the disperse particles is prevented, and their tendency for agglomeration is reduced. The high resistance of the colloidal solutions of gum arabic explains their designation as 'protective colloid'. However, the formation of such a network takes rather a long time (4 – 10 hours), which the winemaker should utilize for filtering and bottling the treated wine shortly after the treatment.

If there is insufficient time to do this, it is advisable to add the product a few days prior to bottling.

Important note: If the gum arabic concentration is not sufficient, gaps form in the colloidal network. Water bridges are formed between the gum arabic molecules, and the protective effect is gradually reduced, which may lead to undesirable turbidities through flocculation of the colloid particles.

Product Characteristics

Gum arabic (E 414) originates from natural excretions or from the healing process of damage to the bark of the leguminous plant *Acacia Seyal*. It consists of L-arabinose, D-galactose, L-rhamnose, and D-glucuronic acid. An initial high colloid content in the wine can lead to problems during filtration, particularly during final filtration via membrane filter cartridges. The reason is that the addition of SIHA Gum Arabic Granulate stabilizer (also a colloid) causes a short-term increase in the colloid content of the wine, which may lead to blockage of the membranes.

In order to avoid this, SIHA Gum Arabic Granulate stabilizer should be added at least 72 hours before membrane filtration. If it is applied after final filtration directly before bottling, it must be added in the form of a 20% solution.

The addition of SIHA Gum Arabic Granulate stabilizer leads to color stabilization in red and rosé wines. As a side effect, the so-called "mouth feeling" of the wine is also improved.

Dosage

The dosage depends on the type of wine and the application.

Dosage: 0.83 – 2.5 lb/1,000 gal (10 – 30 g/hl)

Safety

When used and handled correctly, there are no known unfavorable effects associated with SIHA Gum Arabic Granulate stabilizer.

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

Storage

SIHA Gum Arabic Granulate stabilizer should be stored in a cool, dark, and dry place.

Delivery Information

SIHA Gum Arabic Granulate stabilizer is sold under article no. 65.122 and is available in the following package sizes:

55.1 lb (25 kg) paper bag

Certified Quality

SIHA Gum Arabic Granulate stabilizer is constantly monitored during the production process to ensure consistently high quality. These inspections include technical functional criteria as well as safeness in accordance with relevant laws governing production of foods. Strict controls are additionally carried out immediately prior to and during final packaging.

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