

TETRASOL

TETRASOL is an aqueous solution of purified potassium salts of tetrahydroiso-humulone produced from the alpha-acid fraction of a hop liquid CO₂ concentrate extract in an all aqueous process. The product is free of any solvent residues. The benefits of the use of Tetrasol in comparison with traditional hopping are high flexibility in beer bitterness adjusting, improved foam, enhanced cling and light-stability.

AVAILABILITY

TETRASOL is available in 10% (+/- 0.5%) tetrahydroiso-humulones in aqueous solution ready for direct addition to beer without pre-warming nor dilution.

DILUTION

If dilution is desired for metering pump requisites for example TETRASOL should be diluted 10 times. Soft or deionized water equal to nine times the weight of TETRASOL 10 is needed. (Hard water may cause cloudiness). The pH of the soft water is adjusted to 10 to 11 using potassium hydroxide. The 1:9 dilution is prepared by slowly adding the weighed amount of TETRASOL to the stirred soft pH10-11 water (T = 50°C).

ADDITION

The recommended addition point is at any point between the end of fermentation and the final filtration. The recommended procedure, injection of the aqueous solution into the beer stream, avoids precipitation of the hop acids due to pH shock. A practical place for injection could be the prefilter outlet-line or the final filter inlet-line. The rate of addition by the proportioning pump should be direct proportional to the beer flow in the line. A dip tube in the middle of the beer line provides excellent dispersion. Injections of TETRASOL should always be made with a positive pressure pumping system without using CO₂ back pressure as it will lower the pH of the injection solution and adversely affect the TETRASOL solubility.

USE RATE

Use rates will vary depending on the desired bitterness. As the product is used very late in the process there are no significant losses while in traditional hopping the yield from alpha-acids to bitterness units in final beer turns only around 30%. Contact our technical team for calculation of the specific use rate for your application.

BENEFITS

- Enhanced foam and cling properties even at low concentrations of less than 5 ppm. The use of alginates can be avoided by the use of TETRASOL.
- Lightstability

STORAGE

We recommend storage in full, tightly sealed containers at room temperature 20-25°C.

FOOD GRADE

This product complies with FDA recommended specifications for food additives. Certificates of analysis are provided with each delivery

Our technical advice on the uses of our materials is given without obligation. The buyer is responsible for the application and processing of our products, and he is also liable for observing any third party rights.
