

## FLEX®

FLEX® offers the brewer a flowable concentrated hop product that provides efficiency and flexibility in the brew house. FLEX® is an all-natural product produced from hops that retains the bittering potential of the hops from which it is made. Compared to raw hops or hop pellets, FLEX® represents a convenient and concentrated alternative with excellent stability. In the United States, hop bittering products are generally recognized as safe (GRAS) in accordance with US FDA regulation 21 CFR 182.20.

### Product Specifications:

Description: The color of FLEX® can vary from yellow to amber. FLEX® is flowable at room temperature.

$\alpha$  + iso- $\alpha$ -acids: 65% +/- 5%

Density: approx. 0.8 – 1.0 g/mL

### Quality and Food Safety:

The Barth-Haas Group maintains quality management systems registered to the ISO 9001 standard, as well as food safety management programs based on internationally recognized (HACCP) principles. Please refer to our web site ([www.barthhaasgroup.com](http://www.barthhaasgroup.com)) for more information on our systems and programs.

### Product Use:

For efficient provision of bitterness, add FLEX® to the kettle at the beginning of the wort boil. FLEX® provides better utilization of  $\alpha$ -acids when compared to hop pellets and typically within the range of 32% - 35%. The quantity to be added is calculated using the  $\alpha$ -acids content and the estimated utilization. Actual utilization may vary depending on plant and processing parameters.

### Packaging:

FLEX® is supplied in 1, 2 or 10 kg containers. Containers meet all food industry packaging regulations.

### Storage and Best-by Recommendation:

FLEX® should be stored at 0 – 5 °C (32 – 41 °F). FLEX® is best if used within 2 years after processing. Opened containers should be used within a few days, or about a month at most.

### Analytical Methods:

The concentrations of hop acids may be measured by:

- High Performance Liquid Chromatography (HPLC), using the current ICE standard, according to the EBC 7.7 or the ASBC Hops-14 methods.

### Safety:

Any material coming into contact with the skin should be washed off with soap and water. For more information download the relevant Safety Data Sheet (SDS).

### Technical Support:

We will be pleased to offer help and advice on the use of FLEX® in brewing.