

## 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 extracts are generally recognized as safe (GRAS) in accordance with US FDA regulation 21 CFR 182.20.

### Product Specifications:

Description:	Depending on extraction conditions, 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:

BarthHaas 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.barthhaas.com](http://www.barthhaas.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 25% - 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 2 or 10 kg containers. Containers meet all food industry packaging regulations.

### Storage and Best-by Recommendation:

FLEX® should be stored at 13–24 °C (55–75 °F). FLEX® is best if used within 26 months after processing. Opened containers should be used within 6 months, if proper storage temperatures have been met.

**Analytical Methods:**

The concentrations of hop acids may be measured by:

o 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 that contacts with skin should be washed off with soap and water. For more information download the relevant Safety Data Sheet (SDS) on our website.

**Technical Support:**

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