

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.
α + iso- α -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 (<u>www.barthhaas.com</u>) 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 α -acids when compared to hop pellets and typically within the range of 25% - 35%. The quantity to be added is calculated using the α -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 24 months after processing. Opened containers should be used within 6 months, if proper storage temperatures have been met.

Flex®_EN Rev. 4



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.