

酒花浸膏 (α 酸泡沫稳定剂)

AlphaExtract

概述 OVERVIEW

酒花浸膏 (α 酸泡沫稳定剂)是从二氧化碳酒花中浸膏提取出来的，天然 α -酸的纯净钾盐态水溶液。
AlphaExtract is a pure, aqueous solution of natural alpha acids in the form of potassium salts, derived from CO₂ hop extract.

酒花浸膏 (α 酸泡沫稳定剂)能为啤酒带来柔和的苦味，其苦度仅为异 α -酸苦度的10%。
AlphaExtract imparts a smooth bitterness to beer with a bitterness only 10 % of that of iso-alpha acids.

酒花浸膏 (α 酸泡沫稳定剂)还能提升啤酒泡沫的稳定性和挂杯性。
AlphaExtract also improves the stability and cling of beer foam.

规格 SPECIFICATIONS

简述 Short description: 水溶性酒花浸膏，能赋予啤酒柔和的苦味并增强泡沫持久性
aqueous hop extract to impart a smooth bitterness and foam retention
香叶烯、葎草烯、石竹烯、法呢烯

α -酸 Alpha acids: 20.0 \pm 1.0 % (w/w) HPLC

酸碱度 pH: 8.5 \pm 0.5

密度 Density: ca. 1.05g/ml (20°C)

黏性 Viscosity: 6 mPas (20°C/68°F)

性能 PACKAGING

外观 Appearance
黄色到琥珀色的均质水溶液。
Yellow to amber in color, homogeneous, aqueous solution.

风味 Flavor
酒花浸膏 (α 酸泡沫稳定剂)的推荐添加量为 7-8 mg/l（具体用量视啤酒类型而定），能赋予啤酒柔和的感官苦味。需注意的是，该添加量会导致啤酒的分析苦度值上升。酒花浸膏 (α 酸泡沫稳定剂)带来的苦感比纯异 α -酸更为柔和顺滑。
AlphaExtract provides a smooth (sensory) bitterness at a dosing rate of 7 - 8 mg/l, depending on the type of beer. However, this will lead to an increase in the analytical bitterness value. The perceived bitterness of AlphaExtract is smoother than that of pure iso-alpha acids.

利用率 Utilization
成品啤酒中 α -酸的利用率（基于HPLC分析）一般在60-70%之间波动，具体取决于添加时间与利用率、辅料用量（如有）以及苦味值水平。由于设备和工艺条件的差异，各啤酒厂的实际利用率也会有所不同。
Utilization of alpha acids in the finished beer can vary between 60 - 70 % (based on HPLC analysis) depending on the time and efficiency of dosing, the quantity of adjuncts (if any) and the bitterness level. Actual utilization will vary from brewery to brewery due to differences in equipment and process conditions.

泡沫稳定性 Foam Stability
酒花浸膏 (α 酸泡沫稳定剂)可显著提升啤酒的泡持性与挂杯性。当成品啤酒中 α -酸含量达到3-4mg/l时，其改善效果已明显可见。
AlphaExtract enhances both beer foam retention and cling. An improvement is already noticeable at 3 - 4 mg/l alpha acids in the finished beer.

质量 Quality

所有斯丹纳产品均在符合国际认证质量标准的生产设施中加工制造，并配备完善的残留物监控体系。
All Hopsteiner products are processed in facilities which fulfill internationally recognized quality standards. A monitoring system for residues is in place.

包装规格 PACKAGING

本产品采用标准包装规格，也可以根据客户要求提供其它规格。

Our products are delivered in their respective recommended standard packaging. Alternatives may be possible upon customer request.

美国(US)与德国(DE)加工厂的包装规格如下：

Standard packages of our processing plants in the USA (US) and Germany (DE) are:

- 罐装 Canister: 20 kg (US / DE)
- 壶装 Jug: 10 kg (US)
- 桶装 Pail: 20 kg (US)

产品使用 USAGE

酒花浸膏 (α 酸泡沫稳定剂)建议在过滤的最后阶段之前添加。

AlphaExtract is typically added before the final step in filtration.

添加量 Dosage

酒花浸膏 (α 酸泡沫稳定剂)需按产品浓度、添加比例及预期的利用率计算添加量。实际利用率因啤酒厂而异，具体取决于添加时间和添加点。

Dosage of AlphaExtract is based on the product concentration, the desired dosing rate and the expected utilization. Actual utilization will vary from brewery to brewery depending on the time and point of the addition.

添加方法 Application

我们建议在啤酒流的70%处，将未稀释的酒花浸膏 (α 酸泡沫稳定剂)直接添加到啤酒流中。最好是在过滤最后阶段之前完成添加。需要使用计量准确的高压泵，确保在能实现充分混合的位置，将产品注入啤酒流中。如需稀释，需将酒花浸膏 (α 酸泡沫稳定剂)放入去离子水稀释，并且用氢氧化钾 (KOH) 或碳酸钾 (K₂CO₃) 将pH值调整到8.5-9.5。如果产品要在几天内分次使用，建议在容器顶部空间填充氮气（不可使用二氧化碳）。

We recommend adding AlphaExtract at full strength (undiluted) into the center of the beer stream for at least 70 % of the total volume being transferred, preferably prior to the final step in filtration. An accurate, high pressure dosing pump is required to add the product into the beer stream at a point where vigorous mixing is assured. If dilution is necessary, always add AlphaExtract to demineralized water and adjust the pH to 8.5 - 9.5 using potassium hydroxide (KOH) or potassium carbonate (K₂CO₃). If containers are used over several days, it is highly recommended that the headspace be flushed with nitrogen (CO₂ is not suitable).

清洁建议 Cleaning Recommendation

低温时，酒花浸膏 (α 酸泡沫稳定剂)不得残留在添加线上。添加线及添加泵要用温热的弱碱性去离子水或乙醇冲洗清洁。

AlphaExtract should not be left in dosing lines at low temperatures. Lines and dosing pumps should be flushed with warm, slightly alkaline, demineralized water or ethanol for purposes of cleaning.

存储 Storage

建议在1-5°C (34-41°F) 存储（未启封）。

The recommended storage temperature in the original unopened packaging is 1-5°C (34-41°F).

避免阳光直射。

Avoid exposure to sunlight.

最佳使用时间 Best Before Date

在建议的储藏条件下，最佳使用时间为生产/包装日期后的一年。

Under the recommended storage conditions, the shelf life from the date of production/ packaging is at least 1 year.

安全性 Safety

确保工作场所通风良好，并佩戴个人防护装备。避免接触眼睛和皮肤，请勿吸入蒸汽或粉尘。更详尽的安全资料请参考斯丹纳产品安全数据表。

Ensure good ventilation of the workplace and wear personal protective equipment. Avoid contact with eyes and skin. Do not inhale vapors or dusts. For full safety information, please refer to the relevant Hopsteiner safety data sheet.

分析方法 ANALYTICAL METHODS

使用ASBC（美国酿造协会）和Analytica-EBC（欧洲酿造协会）等国际权威机构颁布的最新标准方法进行检测。

International approved methods listed in committees such as ASBC or Analytica-EBC using current standards are applied.

产品分析 Product analytics

苦味物质含量 Concentration of bitter substances

- Analytica-EBC 7.7 (HPLC)
- ASBC Hops-14 (HPLC)

啤酒分析 Beer analytics

啤酒中 α -酸含量 Concentration of alpha acids in beer

- Analytica-EBC 9.50 (HPLC)

计算啤酒苦味值的标准公式（Analytica-EBC 9.8或ASBC Beer-23A）在使用较高剂量酒花浸膏（ α 酸泡沫稳定剂）时，可能导致结果偏低，需进行相应调整。

The standard formula for calculating bitter units in beer (Analytica-EBC 9.8 or ASBC Beer-23A) may need to be adjusted as it results in too low values when using higher amounts of AlphaExtract.

泡沫稳定性及挂杯性测试 Foam stability and Cling test

- NIBEM Cling
- NIBEM-T Meter
- Pour Test
- Ross & Clark
- Steinfurth Foam Stability Tester

补充说明 Additional information

• 复配使用 Usage in combination

若需将酒花浸膏（ α 酸泡沫稳定剂）与异构酒花浸膏30%复配使用，可根据客户要求，将两种产品混合（形成 α -酸与异 α -酸混合溶液）。

If AlphaExtract is to be used in combination with Iso-Extract 30%, both products can be blended according to customer specifications (resulting in a mixture of alpha and iso-alpha acids).

若酒花浸膏（ α 酸泡沫稳定剂）与四氢异构酒花浸膏复配使用，须在添加四氢异构酒花浸膏前，将酒花浸膏（ α 酸泡沫稳定剂）加入啤酒。

If AlphaExtract and Tetra are used in combination, AlphaExtract must be added to the beer before Tetra.

- 啤酒中 α -酸的稳定性 **Stability of Alpha acids in beer**

啤酒中 α -酸的稳定性

在啤酒正常保质期内检测到 α -酸含量有所降低属正常现象，但已知该现象不会影响啤酒泡沫的稳定性与挂杯性。

It is not unusual to detect a certain decrease of alpha acids over the normal shelf life of beer. Nevertheless, this has been known to have no effect on the stability and cling of beer foam.

- α -酸的光稳定性 **Light stability of alpha acids**

不建议将酒花浸膏（ α 酸泡沫稳定剂）用于生产光稳定性啤酒。

It is not recommended that AlphaExtract be used for the production of light stable beers.

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