

# CERTIFICATE OF ANALYSIS

Variety CZS KAZ      Batch No. 1001709      Crop 2024      Manufacturing entity HOPFENVEREDLUNG

Product Hop Pellets Type 90      Best Before Date 13.11.2029

## DESCRIPTION

Hop Pellets are a hop product added to the kettle to provide bitterness and a hop character that is indistinguishable from that achieved using raw hops. They can also be used post fermentation for dry hopping. Pellets provide improved homogeneity, better storage stability and reduced storage/transport costs compared to raw hops. Supported by a long history of safe use in brewing, and in accordance with US FDA regulation 21 CFR 170.30(c) and 170.3(f), hop pellets are generally recognized as safe (GRAS).

## STORAGE

Hop Pellets should be stored cool at 0 - 5 °C (32 - 41 °F).

## CHEMICAL ANALYSIS

Analysis Method	EBC 7.5 KW Mebak	Analysis Date	13.11.2024
Total resins	19,10 %		
Soft resins	16,20 %		
Alpha acids	6,20 %		
Alpha in % total resin	32,50 %		
Beta Acids	10,00 %		
Beta in % total resins	52,40 %		
Hard resins	2,90 %		
Hard resins in % total resins	15,20 %		
Water content	6,90 %	EBC 7.2	
Oil volumetric	1,50 ml/100g	EBC 7.10	



These hops have been tested in the framework of the BarthHaas Quality Control Guarantee and comply with the residue limits of the country of destination.

## ADDITIONAL INFORMATION

Production Date 13.11.2024

Nürnberg, 07.03.2025

BarthHaas GmbH & Co.KG

Andreas Krauß



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