

	<b>Brewers Gold Freshpak Hops Technical Specification</b>	Document No: QA 309 Date:12/12/2022
	Authorized by: Tim Luckham Control classification: Public	Issue No.3

**Country of origin** France, Germany

**Characteristics** Blackcurrant, Lemon, Spicy

**Typical Alpha Acid** 5-9%

**Typical Beta Acid** 3.5-6.2%

**Typical Cohumulone** 40-48

**Typical Oil Composition** Myrcene: 45-60%, Humulene: 12-18%, Farnesene: Trace

**Typical Total Oil** 1.9-2.3ml/100g

**Flavour Intensity** 8

**Description** - Hops are used to provide bitterness in beer. whole hop cones which have been cleaned, dried.

**Analysis** - Alpha-acids harvest values supplied. Analysis conducted by Lead Conductance  
(LCV) Moisture < 12%

**Physical** Hop Cones

**Aroma** Typical varietal hop aroma

**GRAS Status** Recognised as safe

**Pesticide and Heavy Metal Residues** - Conforms to current EU and US FDA regulations

**Packaging / Storage / Best before Date**

Freshpak are packed in 5 or 20kg packs, in food grade packaging incorporating an oxygen barrier. The packs are flushed with an inert gas. Storage should be cool (5°C) away from direct sunlight or heat sources. Best before Date in un-opened packaging is 5 years from harvest when stored cool. Once opened product should be used within a few days to avoid any deterioration.

**Other**

Freshpak Hops fully meets UK and EU food safety legislation, regulations and directives as they apply to hops and hop products. It is classified by the FDA as a hop product which may be safely used in the manufacture of beer (in accordance with 21 CFR 182.20).

**Quality Manager** – Tim Luckham

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