

## Bullion UK Freshpak Hops Technical Specification

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Authorised by: Tim Luckham Control classification: Public

Issue No.3

Country of origin UK

Characteristics Blackcurrant, Damson, Spicy

**Typical Alpha Acid** 8-11%

**Typical Beta Acid** 4-6%

**Typical Cohumulone** 35-40

**Typical Oil Composition** Myrcene: 40-55%, Humulene: 20-30%, Farnesene: <1%

Typical Total Oil 1.0-2.7ml/100g

Flavour Intensity 7

**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 (LCV) Moisture < 12%

Conductance

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).

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**Quality Manager** – Tim Luckham

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