



# Dana Freshpak Hops Technical Specification

Document No:  
QA 309  
Date:12/12/2022

Authorised by: Tim Luckham  
Control classification: Public

Issue No.3

**Country of origin** Slovenia

**Characteristics** Floral, Lemon, Pine

**Typical Alpha Acid** 9-13%

**Typical Beta Acid** 4-6%

**Typical Cohumulone** 28-31

**Typical Oil Composition** Myrcene: 50-59%, Humulene: 15-21%, Farnesene: 6-9%

**Typical Total Oil** 2.4-3.9ml/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 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

**Sign** -