



# Amarillo® Freshpak Hops Technical Specification

Document No:  
QA 309  
Date:08/10/2024

Authorised by: Tim Luckham  
Control classification: Public

Issue No.4

**Country of origin** USA

**Characteristics** Orange, Peach, Pink Grapefruit

**Typical Alpha Acid** 7-11%

**Typical Beta Acid** 5.5-8%

**Typical Cohumulone** 21-24

**Typical Oil Composition** Myrcene: 68-70%, Humulene: 9-11%, Farnesene: 2-4%

**Typical Total Oil** 1.0-2.3ml/100g

**Flavour Intensity** 9

**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** -