

	<b>Bravo™</b> <b>Type 90 Hop Pellets</b> <b>Technical Specification</b>	Document No: QA 310 Date:12/12/2022
	Authorised by: Tim Luckham Control classification: Public	Issue No.3

**Country of origin** USA

**Characteristics** Pine, Resinous, Plum

**Typical Alpha Acid** 14-18%

**Typical Beta Acid** 3-5.5%

**Typical Cohumulone** 29-34

**Typical Oil Composition** Myrcene: 25-50%, Humulene: 18-20%, Farnesene: <1%%

**Typical Total Oil** 1.6-2.5ml/100g

**Flavour Intensity** 8

**Description** - Hops are used to provide bitterness in beer. Hop pellets are whole hop cones which have been cleaned, dried, milled into a powder, blended and compressed through a die.

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

**Physical** Diameter 6mm / Length 5 – 15mm

**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**

Pellets are packed in 5 or 10kg 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**

Type 90 Hop Pellets 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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