



# Emperor<sup>®</sup>

## Type 90 Hop Pellets

### Technical Specification

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QA 310  
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Authorised by: Tim Luckham  
Control classification: Public

Issue No.3

**Country of origin** UK

**Characteristics** Orange, citrus, resinous

**Typical Alpha Acid** 6-8%

**Typical Beta Acid** 2-3%

**Typical Cohumulone** 35-38

**Typical Oil Composition** Myrcene: 36% | Humulene: 10% | Farnesene: 1.5%

**Typical Total Oil** 0.7-1.1ml/100g

**Flavour Intensity** 7

**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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