



## Vanguard Hop Pellets Type 90

**Origin:** A cross between a selected Hallertau daughter and a USDA selected German aroma male: a triploid hop, similar to Hallertau Mittelfruh.

**Maturity:** Early

**Yield:** 1500 - 1650 kgs/ha (1300-1450 lbs/acre)

**Disease Reaction:** Moderate to good resistance to downy mildew

**Cone Structure:** Small to medium sized, fairly light

### Quality

**Aroma** Excellent noble aroma

**Storage Stability** 75 - 80%

### HPLC Data

Alpha-Acids	4.0 – 6.0% w/w
Cohumulone	14 - 16% of alpha-acids
Beta-Acids	5.0 – 7.5% w/w
Xanthohumol	NA

### Hop Oils

Total Oil 0.8 – 1.2% v/w

of which typically:

Myrcene 20.0 – 25.0%

Humulene 40 - 50%

Caryophyllene 10 - 15%

Farnesene <1.0%

Linalool NA

**Brewing Character:** Provides excellent aromatic notes, along with a very low cohumulone content.

Growers & Suppliers of Hops & Hop Products

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