



# Columbus



## Use in brewing:

Dual purpose. Generally used for main copper hop in the form of extracts and pellets because of the exceedingly high alpha. Have shown to be very aromatic as late hops in cask ales.

## Substitutions:

Chinook, Nugget

## Origin/History:

Three hop varieties with very high alpha properties were all produced at the same time (the two above plus Zeus) and sold to different grower groups. Since then it has been proven that Columbus and Tomahawk are the same variety (by gas chromatograph) and Zeus is so similar that it is indistinguishable from the other two in the finished product! They are all be labeled as Super High Alpha.

## Agronomics:

High yielding and high alpha with generally good resistance to all pests and disease although these varieties are showing signs of susceptibility to Powdery Mildew.

## Storage:

Poor.



Black Pepper, Liquorice, Sherbert



USA

Alpha Acid	14-20%
Beta Acid	4.5-6%
Cohumulone	28-32
Oil Composition	Myrcene: 25-55%, Humulene: 9-25%, Farnesene: <1%
Total Oil	1.5-4.5ml/100g
Flavour Intensity	9