



*Belgian Malts that Make Your Beer So Special*

## CASCADE

### BREWING QUALITY

This German Cascade comes from the Hallertau region. German Cascade is similar in flavor and aroma to the US version. This hop displays quite exceptional levels of citrus moving more toward grapefruit characteristics with a less intense bitterness.



### ORIGIN / HISTORY

German origins. Has higher levels of polyphenols and esters, whereas the US Cascade had higher levels of linalool. This means that the German version has more "hoppy" flavors.

### ACID COMPONENTS

Alpha Acids	4.5-7.0% w/w
Beta Acids	4.5-7.0% w/w
Cohumulone	33-40% of alpha acids

Type T90 Hop Pellets



### OIL COMPONENTS

Total Oil	0.8 – 1.5 ml/100 g
Caryophyllene	5.4% of whole oil
Farnesene	6.0% of whole oil
Humulene	14.5% of whole oil
Myrcene	53.6% of whole oil

Type Leaf Hops



### Possible Substitutions:

Centennial, Saaz

**Castle Malting - True Brewers know why!**

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