



Belgian Malts that Make Your Beer So Special

HALLERTAU NORTHERN BREWER

BREWING QUALITY

Used in ESB, Bitter, English Pale Ale, Porter, Lager, Lambic, Munich Helles for its good bittering value similar to Nugget.



ORIGIN / HISTORY

One of the original medium to high alpha hops, bred in England and later grown also in Belgium, Spain, Germany and the US.

AGRONOMICS

Susceptible to downy and powdery mildew but tolerant to German hop wilt. No strong virus reactions.

ACID COMPONENTS

Alpha Acids	5 - 10% w/w
Beta Acids	3.5 - 5% w/w
Cohumulone	28 - 33% of alpha acids

Type T90 Hop Pellets



OIL COMPONENTS

Total Oil	1.6 - 2.1 mls/100 grams
Caryophyllene	8 - 10% of whole oil
Farnesene	<1% of whole oil
Humulene	25 - 30% of whole oil
Myrcene	30 - 35% of total oil

Type Leaf Hops



Possible Substitutions: Northdown, Challenger



Castle Malting - True Brewers know why!

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