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