



*Belgian Malts that Make Your Beer So Special*

## **CHALLENGER**



### **BREWING QUALITY**

An excellent all round hop with good alpha and aroma properties. As the main copper hop, it provides a refreshing, full bodied, rounded bitterness, which makes an excellent platform for a late hop. As the late addition, it can give a very crisp, fruity character which has proved very popular in many beers.



### **ORIGIN / HISTORY**

UK origin. Introduced by Wye College in 1972.

### **AGRONOMICS**

Good resistance to downy mildew but is susceptible to powdery mildew and Verticillium Wilt.

### **ACID COMPONENTS**

Alpha Acids	6 – 9% w/w
Beta Acids	3.2 – 4.2% w/w
Cohumulone	20 – 25% of alpha acids

**T90 Hop Pellets**



### **OIL COMPONENTS**

Total Oil	1.0 – 1.5 mls/100 grams
Caryophyllene	9.52% of whole oil
Farnesene	1.73% of whole oil
Humulene	29.52% of whole oil
Myrcene	30.49% of total oil

**Leaf Hops**



**Possible Substitutions:** Northdown, Northern Brewer, First Gold



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

Headquarters: Chemin du Couloury 1, 4800 Lambermont, Belgium  
Malting Plant: Rue de Mons 94, 7970 Beloeil, Belgium

Tel.: + 32 (0) 87 662095; Fax: +32 (0) 87 352234; [info@castlemalting.com](mailto:info@castlemalting.com); [www.castlemalting.com](http://www.castlemalting.com)  
Registered Tournai 79754; VAT: BE.455013439; IBAN: BE11 3700 9054 5648; BIC: BBRUBEBB