

## Brown Ale #8

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- Gravity **11.4 BLG**
- ABV **4.6 %**
- IBU **23**
- SRM **12.2**
- Style **Northern English Brown Ale**

### Batch size

- Expected quantity of finished beer **22.5 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **29.8 liter(s)**

### Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20 liter(s)**

### Steps

- Temp **63 C**, Time **45 min**
- Temp **73 C**, Time **15 min**

### Mash step by step

- Heat up **15 liter(s)** of strike water to **70.2C**
- Add grains
- Keep mash **45 min** at **63C**
- Keep mash **15 min** at **73C**
- Sparge using **19.8 liter(s)** of **76C** water or to achieve **29.8 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3.5 kg (70%)	80 %	5
Grain	Brown Malt (British Chocolate)	1 kg (20%)	70 %	128
Grain	Strzegom Bursztynowy	0.5 kg (10%)	70 %	49

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	30 g	60 min	7.6 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Danstar - Windsor Ale	Ale	Slant	200 ml	Danstar