

## Brown Ale #7

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- Gravity **11 BLG**
- ABV **4.4 %**
- IBU **20**
- SRM **9.2**
- 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 **14.1 liter(s)**
- Total mash volume **18.8 liter(s)**

### Steps

- Temp **64 C**, Time **60 min**

### Mash step by step

- Heat up **14.1 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **60 min** at **64C**
- Sparge using **20.4 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	4 kg (85.1%)	80 %	5
Grain	Brown Malt (British Chocolate)	0.7 kg (14.9%)	70 %	128

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	25 g	60 min	7.6 %
Aroma (end of boil)	HBC 472 Experimental	100 g	0 min	9.3 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Danstar - Windsor Ale	Ale	Dry	11 g	Danstar