

BITTER II Charles Rex

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **25**
- SRM **5.8**
- Style **Special/Best/Premium Bitter**

Batch size

- Expected quantity of finished beer **17 liter(s)**
- Trub loss **5 %**
- Size with trub loss **17.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **22.5 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **13.3 liter(s)**
- Total mash volume **17.1 liter(s)**

Steps

- Temp **55 C**, Time **1 min**
- Temp **66 C**, Time **60 min**
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up **13.3 liter(s)** of strike water to **60C**
- Add grains
- Keep mash **1 min** at **55C**
- Keep mash **60 min** at **66C**
- Keep mash **5 min** at **76C**
- Sparge using **13 liter(s)** of **76C** water or to achieve **22.5 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pale Ale Best	2 kg (52.6%)	80 %	6
Grain	Pilsner Malz Best	1.3 kg (34.2%)	81 %	3
Grain	Carapils Best	0.2 kg (5.3%)	75 %	60
Grain	Carared	0.3 kg (7.9%)	75 %	39

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	East Kent Goldings	30 g	60 min	5.7 %
Boil	East Kent Goldings	10 g	10 min	5.7 %

Yeasts

Name	Type	Form	Amount	Laboratory
Wyeast - 1728 Scottish Ale	Ale	Slant	200 ml	Wyeast Labs

Extras

Type	Name	Amount	Use for	Time
Fining	Whirlfloc T	1 g	Boil	5 min

Notes

- Nastepnym razem cara ponizej 10%
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