

Kelsz

- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **22**
- SRM **3.6**
- Style **Kölsch**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.4 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20 liter(s)**

Steps

- Temp **54 C**, Time **15 min**
- Temp **66 C**, Time **30 min**
- Temp **75 C**, Time **40 min**

Mash step by step

- Heat up **15 liter(s)** of strike water to **59.7C**
- Add grains
- Keep mash **15 min** at **54C**
- Keep mash **30 min** at **66C**
- Keep mash **40 min** at **75C**
- Sparge using **16.4 liter(s)** of **76C** water or to achieve **26.4 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	4.5 kg (90%)	82 %	4
Grain	Pszeniczny	0.5 kg (10%)	85 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	20 g	60 min	10 %
Boil	Hallertau	5 g	5 min	4.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale K-97	Ale	Dry	11 g	Fermentis

Extras

Type	Name	Amount	Use for	Time
Fining	Irish Moss	5 g	Boil	10 min