

Kölsch Kłosy Kansas

- Gravity **13.1 BLG**
- ABV **5.3 %**
- IBU **30**
- SRM **4.5**
- Style **Kölsch**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **25.7 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.9 liter(s) / kg**
- Mash size **19.9 liter(s)**
- Total mash volume **25 liter(s)**

Steps

- Temp **52 C**, Time **10 min**
- Temp **64 C**, Time **30 min**
- Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **15 min**

Mash step by step

- Heat up **19.9 liter(s)** of strike water to **56.1C**
- Add grains
- Keep mash **10 min** at **52C**
- Keep mash **30 min** at **64C**
- Keep mash **30 min** at **72C**
- Keep mash **15 min** at **78C**
- Sparge using **10.9 liter(s)** of **76C** water or to achieve **25.7 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	4.23 kg (82.9%)	82 %	4
Grain	Pszeniczny	0.57 kg (11.2%)	85 %	4
Grain	Briess - 2 Row Carapils Malt	0.18 kg (3.5%)	75 %	3
Grain	Caramunich® typ I	0.12 kg (2.4%)	73 %	80

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Tradition	28.57 g	60 min	5.5 %
Boil	Tradition	17.14 g	30 min	5.5 %
Boil	Tradition	0 g	15 min	5.5 %
Boil	Hallertau Spalt Select	28.57 g	15 min	3.4 %

Extras

Type	Name	Amount	Use for	Time
Fining	wirflock	5.89 g	Boil	15 min

Notes

- Piwo uwrzone według mojej receptury Kolsh <https://brewness.com/pl/recipe/kolsch-74/view> przerobionej pod 20 l i 13 blg z kłosami Kansas
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