

# Klasyczny Witbier

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **15**
- SRM **3.8**
- Style **Witbier**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 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 **3.5 liter(s) / kg**
- Mash size **21 liter(s)**
- Total mash volume **27 liter(s)**

## Steps

- Temp **55 C**, Time **20 min**
- Temp **64 C**, Time **60 min**
- Temp **76 C**, Time **10 min**

## Mash step by step

- Heat up **21 liter(s)** of strike water to **60C**
- Add grains
- Keep mash **20 min** at **55C**
- Keep mash **60 min** at **64C**
- Keep mash **10 min** at **76C**
- Sparge using **11.4 liter(s)** of **76C** water or to achieve **26.4 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Bohemian Pilsner Malt	3 kg (49.9%)	81 %	4
Grain	Płatki pszeniczne	2.7 kg (45%)	60 %	3
Grain	Płatki owsiane	0.3 kg (5.1%)	60 %	3

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	East Kent Goldings	20 g	60 min	5.1 %
Boil	Saaz (Czech Republic)	16 g	15 min	4.5 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safbrew S-33	Ale	Dry	2 g	Fermentis

## Extras

Type	Name	Amount	Use for	Time
Spice	kolendra	8 g	Boil	5 min

Spice	curacao	20 g	Boil	5 min
Spice	Skórka pomarańczy	8 g	Boil	5 min

### Notes

- Kleikować w 67C przez 20 minut  
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