

## 4# Witbier ver 1

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- Gravity **13.8 BLG**
- ABV **5.7 %**
- IBU **15**
- SRM **3.4**
- Style **Witbier**

### Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **5 %/h**
- Boil size **24.3 liter(s)**

### Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **17.5 liter(s)**
- Total mash volume **22.5 liter(s)**

### Steps

- Temp **52 C**, Time **20 min**
- Temp **64 C**, Time **60 min**
- Temp **76 C**, Time **5 min**

### Mash step by step

- Heat up **17.5 liter(s)** of strike water to **56.6C**
- Add grains
- Keep mash **20 min** at **52C**
- Keep mash **60 min** at **64C**
- Keep mash **5 min** at **76C**
- Sparge using **11.8 liter(s)** of **76C** water or to achieve **24.3 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	2.5 kg (50%)	81 %	4
Grain	Płatki pszeniczne	2.25 kg (45%)	85 %	3
Grain	Płatki owsiane	0.25 kg (5%)	85 %	3

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	East Kent Goldings	20 g	60 min	5.1 %
Boil	Lublin (Lubelski)	20 g	15 min	4 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Brewferm Blanche	Wheat	Dry	11 g	Brewferm

### Extras

Type	Name	Amount	Use for	Time
Spice	Kolendra	7 g	Boil	5 min
Spice	Curacao	20 g	Boil	5 min

## Notes

- Wszystkie płatki kleikujemy w temp. 65-70°C przez ok 20-30min  
*Feb 7, 2018, 11:35 PM*