

## Witbir

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **13**
- SRM **3.7**
- Style **Witbier**

### Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.2 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **29 liter(s)**

### Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3.8 liter(s) / kg**
- Mash size **22.8 liter(s)**
- Total mash volume **28.8 liter(s)**

### Steps

- Temp **80 C**, Time **20 min**
- Temp **68 C**, Time **70 min**
- Temp **76 C**, Time **10 min**

### Mash step by step

- Heat up **22.8 liter(s)** of strike water to **74.3C**
- Add grains
- Keep mash **70 min** at **68C**
- Keep mash **10 min** at **76C**
- Keep mash **20 min** at **80C**
- Sparge using **12.2 liter(s)** of **76C** water or to achieve **29 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	3.4 kg (56.7%)	81 %	4
Grain	Pszeniczny	1 kg (16.7%)	85 %	4
Grain	Płatki orkiszowe	0.4 kg (6.7%)	80 %	4
Grain	Płatki pszeniczne	1.2 kg (20%)	85 %	3

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Saaz (Czech Republic)	24 g	60 min	3.5 %
Boil	Saaz (Czech Republic)	40 g	10 min	3.5 %

### Yeasts

Name	Type	Form	Amount	Laboratory
FM23	Wheat	Liquid	1100 ml	Fementum Mobile

### Extras

Type	Name	Amount	Use for	Time
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Spice	kolendra	11 g	Boil	10 min
Spice	curacao	22 g	Boil	10 min