# Witbier podkręcony

- Gravity 10.5 BLG
- ABV 4.2 %
- IBU **24**
- SRM **2.5**
- Style Witbier

#### **Batch size**

- Expected quantity of finished beer 20 liter(s)
- Trub loss 2 %
- Size with trub loss 20.4 liter(s)
- · Boil time 60 min
- Evaporation rate 15 %/h
- Boil size 25.8 liter(s)

### **Mash information**

- Mash efficiency 75 %
- Liquor-to-grist ratio 4 liter(s) / kg
- Mash size 10.8 liter(s)
- Total mash volume 13.5 liter(s)

### **Steps**

- Temp 52 C, Time 20 min
  Temp 63 C, Time 60 min
  Temp 72 C, Time 25 min
- Temp **78 C**, Time **10 min**

# Mash step by step

- Heat up 10.8 liter(s) of strike water to 56C
- Add grains
- Keep mash 20 min at 52C
- Keep mash 60 min at 63C
- Keep mash 25 min at 72C
- Keep mash 10 min at 78C
- Sparge using 17.7 liter(s) of 76C water or to achieve 25.8 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Heidelberg	2 kg <i>(54.1%)</i>	80.5 %	2
Adjunct	Pszenica niesłodowana	1 kg (27%)	75 %	3
Grain	Pszeniczny	0.5 kg <i>(13.5%)</i>	85 %	4
Grain	Płatki owsiane	0.2 kg (5.4%)	85 %	3

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Lublin (Lubelski)	50 g	60 min	4 %

### **Yeasts**

Name	Туре	Form	Amount	Laboratory
Mangrove Jack's M21 Belgian Wit	Wheat	Dry	11 g	Mangrove Jack's

#### **Extras**

e Name	Amount	Use for	Time
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Spice	curacao	35 g	Boil	10 min
Spice	kolendra	15 g	Boil	10 min