### witek

- Gravity 12.4 BLG
- ABV **5** %
- IBU 22
- SRM **4.1**
- Style Witbier

## **Batch size**

- Expected quantity of finished beer 12 liter(s)
- Trub loss 5 %
- Size with trub loss 12.6 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 15.2 liter(s)

### **Mash information**

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 8.6 liter(s)
- Total mash volume 11.5 liter(s)

## **Steps**

- Temp **45 C**, Time **25 min** Temp **69 C**, Time **55 min**
- Temp 76 C, Time 10 min

## Mash step by step

- Heat up 8.6 liter(s) of strike water to 49.2C
- Add grains
- Keep mash 25 min at 45C
- Keep mash 55 min at 69C
- Keep mash 10 min at 76C
- Sparge using 9.5 liter(s) of 76C water or to achieve 15.2 liter(s) of wort

## **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Briess - Wheat Malt, White	1.8 kg <i>(62.5%)</i>	85 %	5
Grain	Oats, Flaked	0.08 kg <i>(2.8%)</i>	80 %	2
Grain	Pale Malt (2 Row) UK	1 kg <i>(34.7%)</i>	78 %	6

#### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Saaz (Czech Republic)	15 g	60 min	3 %
Boil	Golding	18 g	45 min	4.5 %

#### **Yeasts**

Name	Туре	Form	Amount	Laboratory
Wyeast - Belgian Witbier	Ale	Liquid	50 ml	Wyeast Labs

# **Extras**

Туре	Name	Amount	Use for	Time
Spice	colendian seed	5 g	Boil	10 min

Spice	orange peel	25 g	Boil	10 min
Spice	bitter orange peel	9 g	Boil	10 min