

# Witbier

- Gravity **14.4 BLG**
- ABV ---
- IBU **23**
- SRM **4.3**
- Style **Witbier**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **10 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **25.3 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20 liter(s)**

## Steps

- Temp **45 C**, Time **20 min**
- Temp **62 C**, Time **30 min**
- Temp **72 C**, Time **30 min**

## Mash step by step

- Heat up **15 liter(s)** of strike water to **49.2C**
- Add grains
- Keep mash **20 min** at **45C**
- Keep mash **30 min** at **62C**
- Keep mash **30 min** at **72C**
- Sparge using **15.3 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pszeniczny	3 kg (60%)	85 %	4
Grain	Strzegom Pilzneński	2 kg (40%)	80 %	4

## Hops

Use for	Name	Amount	Time	Alpha acid
Aroma (end of boil)	Flyer	30 g	10 min	11 %
Aroma (end of boil)	Styrian Goldings	60 g	10 min	4.5 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Wyeast - German Ale	Ale	Liquid	125 ml	Wyeast Labs

## Extras

Type	Name	Amount	Use for	Time
Spice	Curacao	20 g	Boil	15 min
Spice	Kolendra	20 g	Boil	15 min