

# Witbier

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- Gravity **12.1 BLG**
- ABV ---
- IBU **19**
- SRM **4.8**
- Style **Witbier**

## Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.5 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15.3 liter(s)**
- Total mash volume **20.4 liter(s)**

## Steps

- Temp **50 C**, Time **30 min**
- Temp **64 C**, Time **60 min**
- Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **5 min**

## Mash step by step

- Heat up **15.3 liter(s)** of strike water to **55C**
- Add grains
- Keep mash **30 min** at **50C**
- Keep mash **60 min** at **64C**
- Keep mash **30 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **16.3 liter(s)** of **76C** water or to achieve **26.5 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	2.4 kg (47.1%)	80 %	4
Grain	Strzegom pszeniczny	1.2 kg (23.5%)	81 %	6
Grain	Weyermann - Abbey Malt	0.1 kg (2%)	50 %	45
Grain	Oats, Flaked	0.4 kg (7.8%)	80 %	2
Grain	Wheat, Flaked	1 kg (19.6%)	77 %	4

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Perle	20 g	60 min	7 %
Aroma (end of boil)	Perle	10 g	15 min	7 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safbrew S-33	Ale	Dry	11.5 g	Safbrew

## Extras

Type	Name	Amount	Use for	Time
Flavor	curacao	20 g	Boil	10 min
Spice	skórka z pomarańczy	160 g	Boil	10 min
Spice	kolendra	25 g	Boil	10 min