

# Witbier 12 blg 25L (Twój Browar)

- Gravity **10.7 BLG**
- ABV **4.3 %**
- IBU **10**
- SRM **3.2**
- Style **Witbier**

## Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **20.4 liter(s)**
- Total mash volume **25.5 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 **20.4 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 **16.4 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	3 kg (58.8%)	81 %	4
Grain	Pszeniczny	0.7 kg (13.7%)	85 %	4
Grain	Pszenica niesłodowana	1 kg (19.6%)	75 %	3
Grain	Słód owsiany Fawcett	0.4 kg (7.8%)	61 %	5

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Cascade	12 g	60 min	6 %
Boil	Cascade	18 g	10 min	6 %

## Yeasts

Name	Type	Form	Amount	Laboratory
FM23	Ale	Liquid	30 ml	Fermentum Mobile

## Extras

Type	Name	Amount	Use for	Time
Spice	curacao	15 g	Boil	10 min
Spice	kolendra	20 g	Boil	10 min
Spice	skórki słodkiej pomarańczy	15 g	Boil	10 min
Spice	skórki pomarańczy bergamotki	15 g	Boil	10 min

## Notes

- pszenica kleikowana w 5L wody przez 5 min  
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