

blond

- Gravity **12.6 BLG**
- ABV ---
- IBU **25**
- SRM **4.1**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **25.7 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **13.5 liter(s)**
- Total mash volume **18 liter(s)**

Steps

- Temp **67 C**, Time **90 min**
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up **13.5 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **90 min** at **67C**
- Keep mash **5 min** at **76C**
- Sparge using **16.7 liter(s)** of **76C** water or to achieve **25.7 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	3.5 kg (77.8%)	81 %	4
Grain	Pszeniczny	1 kg (22.2%)	85 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Cascade	10 g	60 min	6 %
Boil	Cascade	10 g	40 min	6 %
Boil	Cascade	30 g	5 min	6 %
Boil	Marynka	30 g	5 min	9.6 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11 g	Fermentis