

Polish Pale Ale

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **26**
- SRM **4.6**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **16 liter(s)**
- Trub loss **5 %**
- Size with trub loss **16.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **20.2 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.3 liter(s) / kg**
- Mash size **12.9 liter(s)**
- Total mash volume **16.8 liter(s)**

Steps

- Temp **68 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **12.9 liter(s)** of strike water to **75.3C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **10 min** at **78C**
- Sparge using **11.2 liter(s)** of **76C** water or to achieve **20.2 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3 kg (76.9%)	80 %	5
Grain	Strzegom Pszeniczny	0.5 kg (12.8%)	81 %	6
Grain	Karmelowy Jasny 30EBC	0.2 kg (5.1%)	75 %	30
Grain	Płatki owsiane	0.2 kg (5.1%)	85 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	14 g	60 min	8.8 %
Boil	Cascade PL	15 g	30 min	5.2 %
Dry Hop	Cascade PL	35 g	2 day(s)	5.2 %
Dry Hop	Mosaic	40 g	2 day(s)	10 %

Yeasts

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