

Polski Pale Ale

- Gravity **10.2 BLG**
- ABV **4.1 %**
- IBU **19**
- SRM **3.4**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.8 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **13.2 liter(s)**
- Total mash volume **17.6 liter(s)**

Steps

- Temp **50 C**, Time **5 min**
- Temp **63 C**, Time **30 min**
- Temp **72 C**, Time **40 min**

Mash step by step

- Heat up **13.2 liter(s)** of strike water to **55C**
- Add grains
- Keep mash **5 min** at **50C**
- Keep mash **30 min** at **63C**
- Keep mash **40 min** at **72C**
- Sparge using **18 liter(s)** of **76C** water or to achieve **26.8 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3 kg (68.2%)	80 %	5
Grain	Briess - Carapils Malt	1.4 kg (31.8%)	74 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Aroma (end of boil)	Marynka	15 g	60 min	10 %
Aroma (end of boil)	Lublin (Lubelski)	15 g	10 min	4 %

Yeasts

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