

Pale ALE USA 2

- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **30**
- SRM **7.9**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **30 liter(s)**
- Trub loss **5 %**
- Size with trub loss **31.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **38 liter(s)**

Mash information

- Mash efficiency **65 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **27.8 liter(s)**
- Total mash volume **37 liter(s)**

Steps

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

Mash step by step

- Heat up **27.8 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **10 min** at **78C**
- Sparge using **19.5 liter(s)** of **76C** water or to achieve **38 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5 kg (54.1%)	80 %	5
Grain	Pszenica niesłodowana	4 kg (43.2%)	75 %	3
Grain	Strzegom Karmel 300	0.25 kg (2.7%)	70 %	299

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Enigma (AUS)	20 g	60 min	17.2 %
Aroma (end of boil)	Izabella	40 g	10 min	5.1 %

Yeasts

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