

Aleksander 1

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **39**
- SRM **3.5**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.9 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **24 liter(s)**

Steps

- Temp **65 C**, Time **90 min**

Mash step by step

- Heat up **18 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **90 min** at **65C**
- Sparge using **19.9 liter(s)** of **76C** water or to achieve **31.9 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5 kg (83.3%)	80 %	5
Grain	Viiing caramel pale kg	1 kg (16.7%)	80 %	---

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Warior	25 g	60 min	14.7 %
Aroma (end of boil)	Cascade	50 g	5 min	7.1 %
Dry Hop	Palisade	50 g	7 day(s)	7.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	13 g	---