

American Porter

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **36**
- SRM **11.9**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **32.2 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **11.4 liter(s)**
- Total mash volume **15.2 liter(s)**

Steps

- Temp **63 C**, Time **20 min**
- Temp **72 C**, Time **45 min**
- Temp **78 C**, Time **15 min**

Mash step by step

- Heat up **11.4 liter(s)** of strike water to **70.2C**
- Add grains
- Keep mash **20 min** at **63C**
- Keep mash **45 min** at **72C**
- Keep mash **15 min** at **78C**
- Sparge using **24.6 liter(s)** of **76C** water or to achieve **32.2 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Monachijski typ II	3 kg (54.5%)	79 %	22
Grain	Viking Melanoidynowy	0.8 kg (14.5%)	75 %	60
Liquid Extract	Gozdawa ekstrakt słodowy superjasny	1.7 kg (30.9%)	80 %	40

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Saaz (USA)	45 g	40 min	3.75 %
Boil	Magnum	20 g	50 min	13.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-33	Ale	Dry	23 g	Fermentis

Notes

- Przed zadaniem drożdży do brzeczki dodatek wody OAZA do dopełnienia do 25L.
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