

PolishHop

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **29**
- SRM **4.2**

Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **25.3 liter(s)**
- Boil time **70 min**
- Evaporation rate **8 %/h**
- Boil size **29.6 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **19.3 liter(s)**
- Total mash volume **24.8 liter(s)**

Steps

- Temp **52 C**, Time **10 min**
- Temp **66 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **19.3 liter(s)** of strike water to **56.6C**
- Add grains
- Keep mash **10 min** at **52C**
- Keep mash **60 min** at **66C**
- Keep mash **10 min** at **78C**
- Sparge using **15.8 liter(s)** of **76C** water or to achieve **29.6 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	4.5 kg (81.8%)	80 %	4
Grain	Strzegom Monachijski typ II	0.5 kg (9.1%)	79 %	22
Grain	Pszoniczny	0.5 kg (9.1%)	85 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	25 g	60 min	10 %
Boil	Premiant	25 g	10 min	6.6 %
Aroma (end of boil)	Premiant	20 g	0 min	6.6 %
Aroma (end of boil)	Cascade PL	10 g	0 min	5.2 %
Dry Hop	Premiant	20 g	4 day(s)	6.6 %
Dry Hop	Cascade PL	20 g	4 day(s)	5.2 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Slant	200 ml	Safale