

Polska IPA

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **59**
- SRM **6.1**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **21.2 liter(s)**
- Total mash volume **27.2 liter(s)**

Steps

- Temp **69 C**, Time **60 min**

Mash step by step

- Heat up **21.2 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **60 min** at **69C**
- Sparge using **16.6 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	2.2 kg (36.4%)	80 %	4
Grain	Monachijski	2.5 kg (41.3%)	80 %	16
Grain	Strzegom Karmel 30	0.35 kg (5.8%)	75 %	30
Grain	Pszoniczny	1 kg (16.5%)	85 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	50 g	60 min	10 %
Boil	Lublin (Lubelski)	60 g	5 min	4 %
Boil	lunga	10 g	60 min	11 %
Whirlpool	Lublin (Lubelski)	30 g	15 min	4 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	Fermentis