

Imperial POL PIPA

- Gravity **13.8 BLG**
- ABV **5.7 %**
- IBU **27**
- SRM **9.6**
- Style **Imperial IPA**

Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.5 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **20.3 liter(s)**
- Total mash volume **26.1 liter(s)**

Steps

- Temp **52 C**, Time **17 min**
- Temp **65 C**, Time **45 min**
- Temp **72 C**, Time **15 min**
- Temp **77 C**, Time **10 min**

Mash step by step

- Heat up **20.3 liter(s)** of strike water to **56.6C**
- Add grains
- Keep mash **17 min** at **52C**
- Keep mash **45 min** at **65C**
- Keep mash **15 min** at **72C**
- Keep mash **10 min** at **77C**
- Sparge using **12 liter(s)** of **76C** water or to achieve **26.5 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	3.5 kg (60.3%)	80 %	4
Grain	Pszeniczny	0.9 kg (15.5%)	85 %	4
Grain	Strzegom Monachijski typ I	0.9 kg (15.5%)	79 %	16
Grain	Strzegom Karmel 150	0.5 kg (8.6%)	75 %	150

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Oktawia	25 g	60 min	5.7 %
Aroma (end of boil)	Zythos	15 g	20 min	9.2 %
Aroma (end of boil)	Chinook	15 g	10 min	7.6 %
Whirlpool	Citra	10 g	0 min	13 %

Yeasts

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