

IMPERIAL IPA

- Gravity **19.8 BLG**
- ABV **8.7 %**
- IBU **92**
- SRM **8**
- Style **Imperial IPA**

Batch size

- Expected quantity of finished beer **18 liter(s)**
- Trub loss **5 %**
- Size with trub loss **19.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **23.3 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.3 liter(s) / kg**
- Mash size **19.8 liter(s)**
- Total mash volume **25.8 liter(s)**

Steps

- Temp **64 C**, Time **50 min**
- Temp **72 C**, Time **25 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **19.8 liter(s)** of strike water to **70.7C**
- Add grains
- Keep mash **50 min** at **64C**
- Keep mash **25 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **9.5 liter(s)** of **76C** water or to achieve **23.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pale Ale	5 kg (75.8%)	80 %	5
Sugar	Cukier biały	0.6 kg (9.1%)	95 %	2
Grain	Melanoidynowy	0.5 kg (7.6%)	80 %	39
Grain	Carared	0.5 kg (7.6%)	75 %	45

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Simcoe	30 g	60 min	14 %
Boil	Simcoe	30 g	30 min	14 %
Boil	Simcoe	40 g	15 min	14 %
Dry Hop	Ahtanum	50 g	11 day(s)	3.6 %

Yeasts

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