

imperial ipa

- Gravity **16.4 BLG**
- ABV **6.9 %**
- IBU **86**
- SRM **6.8**
- Style **Imperial IPA**

Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.8 liter(s)**

Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **22.3 liter(s)**
- Total mash volume **28.7 liter(s)**

Steps

- Temp **62 C**, Time **45 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **22.3 liter(s)** of strike water to **68C**
- Add grains
- Keep mash **45 min** at **62C**
- Keep mash **15 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **11.9 liter(s)** of **76C** water or to achieve **27.8 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5 kg (78.4%)	80 %	5
Grain	Żytni	1 kg (15.7%)	85 %	8
Grain	Weyermann - Carapils	0.28 kg (4.4%)	78 %	4
Grain	Strzegom Karmel 300	0.1 kg (1.6%)	70 %	299

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Warrior	40 g	60 min	15.5 %
Boil	Simcoe	40 g	15 min	13.2 %
Boil	Citra	20 g	15 min	12 %
Aroma (end of boil)	Simcoe	30 g	0 min	13.2 %
Aroma (end of boil)	Citra	30 g	0 min	12 %
Dry Hop	Simcoe	30 g	3 day(s)	13.2 %
Dry Hop	Citra	30 g	3 day(s)	12 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11 g	Fermentis