

OZJASZ IPA

- Gravity **17.3 BLG**
- ABV **7.4 %**
- IBU **79**
- SRM **10**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **2.8 liter(s) / kg**
- Mash size **19.6 liter(s)**
- Total mash volume **26.6 liter(s)**

Steps

- Temp **62 C**, Time **20 min**
- Temp **66 C**, Time **60 min**
- Temp **71 C**, Time **20 min**

Mash step by step

- Heat up **19.6 liter(s)** of strike water to **69.5C**
- Add grains
- Keep mash **20 min** at **62C**
- Keep mash **60 min** at **66C**
- Keep mash **20 min** at **71C**
- Sparge using **12.7 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	6 kg (85.7%)	80 %	5
Grain	Pszeniczny	0.5 kg (7.1%)	85 %	4
Grain	Karmelowy żytni Strzegom	0.5 kg (7.1%)	75 %	150

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	30 g	60 min	13 %
Boil	Citra	20 g	20 min	12 %
Boil	Cascade	20 g	20 min	6 %
Whirlpool	Cascade	30 g	1 min	6 %
Whirlpool	Citra	20 g	1 min	12 %
Boil	Citra	20 g	60 min	12 %
Boil	Chinook	30 g	1 min	13 %

Yeasts

Name	Type	Form	Amount	Laboratory
us-05	Ale	Dry	11.5 g	---