

Ojcowe PaleAle

- Gravity **15 BLG**
- ABV **6.2 %**
- IBU **58**
- SRM **5.8**
- Style **English 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 **83 %**
- Liquor-to-grist ratio **3.55 liter(s) / kg**
- Mash size **19.5 liter(s)**
- Total mash volume **25 liter(s)**

Steps

- Temp **66 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **19.5 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **10 min** at **78C**
- Sparge using **11.3 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	5 kg (90.9%)	79 %	6
Grain	Strzegom Karmel 30	0.5 kg (9.1%)	75 %	30

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	50 g	30 min	13.5 %
Boil	Saaz (Czech Republic)	20 g	15 min	4.5 %
Boil	Saaz (Czech Republic)	20 g	5 min	4.5 %
Whirlpool	Saaz (Czech Republic)	10 g	10 min	4.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.4 g	Safale