

Summer ale dom kultury

- Gravity **12.4 BLG**
- ABV ---
- IBU **43**
- SRM **5.6**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **19 liter(s)**
- Trub loss **5 %**
- Size with trub loss **19.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **24.1 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **19.3 liter(s)**

Steps

- Temp **63 C**, Time **30 min**
- Temp **73 C**, Time **30 min**

Mash step by step

- Heat up **15 liter(s)** of strike water to **69.2C**
- Add grains
- Keep mash **30 min** at **63C**
- Keep mash **30 min** at **73C**
- Sparge using **13.4 liter(s)** of **76C** water or to achieve **24.1 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	2 kg (46.5%)	81 %	4
Grain	Pszeniczny	0.3 kg (7%)	85 %	4
Grain	Strzegom Wiedeński	1.6 kg (37.2%)	79 %	10
Grain	Karmelowy Jasny 30EBC	0.4 kg (9.3%)	75 %	30

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Galaxy	8 g	60 min	15 %
Boil	Mouteka	20 g	15 min	7 %
Boil	Amarillo	20 g	10 min	9.5 %
Boil	Galaxy	25 g	5 min	15 %

Yeasts

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