

#9 Earl Grey Pale Ale

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **36**
- SRM **6.5**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **25 %/h**
- Boil size **30.1 liter(s)**

Mash information

- Mash efficiency **78 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **17.8 liter(s)**
- Total mash volume **22.9 liter(s)**

Steps

- Temp **67 C**, Time **70 min**
- Temp **78 C**, Time **15 min**

Mash step by step

- Heat up **17.8 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **70 min** at **67C**
- Keep mash **15 min** at **78C**
- Sparge using **17.4 liter(s)** of **76C** water or to achieve **30.1 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|------------------------------------|----------------|-------|-----|
| Grain | Słodownia Strzegom - pale ale | 4.5 kg (88.6%) | 79 % | 6 |
| Grain | Oats, Flaked | 0.35 kg (6.9%) | 80 % | 1 |
| Grain | Słodownia Strzegom - karmelowy 150 | 0.23 kg (4.5%) | 76 % | 134 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|------------------------|--------|--------|------------|
| Boil | Columbus/Tomahawk/Zeus | 20 g | 60 min | 12.5 % |
| Boil | Palisade | 30 g | 0 min | 7.5 % |
| Boil | Palisade | 10 g | 15 min | 7.5 % |
| Boil | Palisade | 10 g | 30 min | 7.5 % |

Yeasts

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

Notes

- Zacieranie 15 min 69-66 C
15 g Palisade na Hopstand 75 C (90 min), po 30 min spadło do 70 C
Po przelaniu do fermentora 18 L ok. 16 Blg

Dolane 5 L wody do 12,5 Blg
Zadane sucharami US-05
Podzielone na 2
Do jednej części 50 g EG Oriental
Do drugiej 12g Palisade
Nagazowane do 2,4
EG słabo wymieszane z cukrem
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