

[1] Bitwa o Anglię

- Gravity **11.9 BLG**
- ABV ---
- IBU **26**
- SRM **5.9**
- Style **Extra Special/Strong Bitter (English Pale Ale)**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **10 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **25.3 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **14 liter(s)**
- Total mash volume **18 liter(s)**

Steps

- Temp **67.5 C**, Time **60 min**

Mash step by step

- Heat up **14 liter(s)** of strike water to **74.3C**
- Add grains
- Keep mash **60 min** at **67.5C**
- Sparge using **15.3 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|---------------------------|--------------|-------|-----|
| Grain | Weyermann - Pale Ale Malt | 3.8 kg (95%) | 85 % | 7 |
| Grain | Carahell | 0.2 kg (5%) | 77 % | 26 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|---------------|--------|--------|------------|
| Boil | Kent Goldings | 30 g | 60 min | 5.5 % |
| Aroma (end of boil) | Fuggles | 20 g | 15 min | 4.5 % |
| Aroma (end of boil) | Fuggles | 10 g | 5 min | 4.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------------|------|------|--------|------------|
| Safale S-04 | Ale | Dry | 11.5 g | Safale |