

# Angielska IPA 20\_Bro

- Gravity **14.3 BLG**
- ABV **5.9 %**
- IBU **22**
- SRM **6.2**
- 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 **85 %**
- Liquor-to-grist ratio **3.15 liter(s) / kg**
- Mash size **15.1 liter(s)**
- Total mash volume **19.9 liter(s)**

## Steps

- Temp **68 C**, Time **60 min**
- Temp **72 C**, Time **10 min**
- Temp **76 C**, Time **7 min**

## Mash step by step

- Heat up **15.1 liter(s)** of strike water to **75.6C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **10 min** at **72C**
- Keep mash **7 min** at **76C**
- Sparge using **15 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 | 4.5 kg (93.8%) | 85 %  | 7   |
| Grain | Weyermann - Caraamber     | 0.3 kg (6.3%)  | 75 %  | 65  |

## Hops

| Use for             | Name               | Amount | Time     | Alpha acid |
|---------------------|--------------------|--------|----------|------------|
| Boil                | Horizon            | 10 g   | 60 min   | 12.9 %     |
| Boil                | Willamette         | 10 g   | 15 min   | 5 %        |
| Boil                | Horizon            | 10 g   | 15 min   | 12.9 %     |
| Aroma (end of boil) | East Kent Goldings | 10 g   | 0 min    | 5.1 %      |
| Aroma (end of boil) | Willamette         | 10 g   | 0 min    | 5 %        |
| Dry Hop             | East Kent Goldings | 20 g   | 5 day(s) | 5.1 %      |
| Dry Hop             | Horizon            | 10 g   | 5 day(s) | 12.9 %     |

## Yeasts

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