

Best Bitter Angielski - 24-03-2018

- Gravity **11.7 BLG**
- ABV ---
- IBU **25**
- SRM **7.3**
- Style **Special/Best/Premium Bitter**

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 **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **13.2 liter(s)**
- Total mash volume **17.6 liter(s)**

Steps

- Temp **50 C**, Time **10 min**
- Temp **64 C**, Time **30 min**
- Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **13.2 liter(s)** of strike water to **55C**
- Add grains
- Keep mash **10 min** at **50C**
- Keep mash **30 min** at **64C**
- Keep mash **30 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **16.5 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|------------------------|---------------|--------|-----|
| Grain | Briess - Pale Ale Malt | 4 kg (90.9%) | 80 % | 7 |
| Grain | Special B Malt | 0.1 kg (2.3%) | 65.2 % | 315 |
| Grain | Carahell | 0.3 kg (6.8%) | 77 % | 26 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|----------|--------|--------|------------|
| Boil | Minstrel | 30 g | 60 min | 4.9 % |
| Boil | Minstrel | 20 g | 30 min | 4.9 % |
| Aroma (end of boil) | Minstrel | 40 g | 0 min | 4.9 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|-------|--------|------------|
| S-04 | Ale | Slant | 100 ml | --- |