

## Brown Porter 2

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- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **21**
- SRM **21.9**
- Style **Brown Porter**

### Batch size

- Expected quantity of finished beer **18 liter(s)**
- Trub loss **5 %**
- Size with trub loss **18.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **22.8 liter(s)**

### Mash information

- Mash efficiency **72 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **22.5 liter(s)**

### Steps

- Temp **69 C**, Time **70 min**
- Temp **76 C**, Time **5 min**

### Mash step by step

- Heat up **18 liter(s)** of strike water to **75.1C**
- Add grains
- Keep mash **70 min** at **69C**
- Keep mash **5 min** at **76C**
- Sparge using **9.3 liter(s)** of **76C** water or to achieve **22.8 liter(s)** of wort

### Fermentables

| Type  | Name                             | Amount         | Yield | EBC  |
|-------|----------------------------------|----------------|-------|------|
| Grain | Viking Pilsner malt              | 3.2 kg (71.1%) | 82 %  | 4    |
| Grain | Brown Malt (British Chocolate)   | 0.4 kg (8.9%)  | 70 %  | 128  |
| Grain | Caraaroma                        | 0.4 kg (8.9%)  | 78 %  | 400  |
| Grain | Płatki owsiane                   | 0.4 kg (8.9%)  | 60 %  | 3    |
| Grain | Fawcett - Pszeniczny Czekoladowy | 0.1 kg (2.2%)  | 73 %  | 1001 |

### Hops

| Use for | Name     | Amount | Time   | Alpha acid |
|---------|----------|--------|--------|------------|
| Boil    | Puławski | 15 g   | 60 min | 9 %        |
| Boil    | Golding  | 30 g   | 5 min  | 5 %        |

### Yeasts

| Name                 | Type | Form  | Amount | Laboratory       |
|----------------------|------|-------|--------|------------------|
| FM52 Amerykański Sen | Ale  | Slant | 200 ml | Fermentum Mobile |

### Extras

| Type   | Name            | Amount | Use for | Time   |
|--------|-----------------|--------|---------|--------|
| Fining | Whirfloc        | 6 g    | Boil    | 15 min |
| Other  | gips piwowarski | 10 g   | Mash    | 70 min |

## Notes

- Woda z kranu (nie biedra)  
*Sep 21, 2022, 12:57 PM*