

PORTER

- Gravity **20.2 BLG**
- ABV **8.9 %**
- IBU **60**
- SRM **30**
- Style **Baltic Porter**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.4 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **23.8 liter(s)**
- Total mash volume **31.8 liter(s)**

Steps

- Temp **62 C**, Time **40 min**
- Temp **72 C**, Time **40 min**
- Temp **79 C**, Time **10 min**

Mash step by step

- Heat up **23.8 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **40 min** at **62C**
- Keep mash **40 min** at **72C**
- Keep mash **10 min** at **79C**
- Sparge using **10.6 liter(s)** of **76C** water or to achieve **26.4 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------------|----------------|-------|------|
| Grain | Płatki owsiane | 0.8 kg (10.1%) | 85 % | 3 |
| Grain | Weyermann - Pale Ale Malt | 3 kg (37.7%) | 85 % | 7 |
| Grain | Strzegom Monachijski typ I | 2 kg (25.2%) | 79 % | 16 |
| Grain | Weyermann - Pale Wheat Malt | 1 kg (12.6%) | 85 % | 5 |
| Grain | Słód Caramunich Typ II Weyermann | 0.3 kg (3.8%) | 73 % | 120 |
| Grain | Weyermann Specjal W | 0.3 kg (3.8%) | 68 % | 300 |
| Grain | Simpsons - Coffee Malt | 0.25 kg (3.1%) | 74 % | 296 |
| Grain | Carafa III | 0.2 kg (2.5%) | 70 % | 1034 |
| Grain | Strzegom Barwiący | 0.1 kg (1.3%) | 68 % | 1300 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|-------|--------|--------|------------|
| Boil | lunga | 30 g | 60 min | 11 % |

| | | | | |
|------|---------|------|--------|------|
| Boil | lunga | 20 g | 40 min | 11 % |
| Boil | Marynka | 40 g | 20 min | 10 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------------|------|-------|--------|------------|
| Safale S-04 | Ale | Slant | 300 ml | --- |

Extras

| Type | Name | Amount | Use for | Time |
|--------|------|--------|-----------|----------|
| Flavor | kawa | 200 g | Secondary | 5 day(s) |