

Porter v1

- Gravity **22.9 BLG**
- ABV **10.4 %**
- IBU **32**
- SRM **27**
- Style **Robust Porter**

Batch size

- Expected quantity of finished beer **12 liter(s)**
- Trub loss **5 %**
- Size with trub loss **12.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **15.2 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18.8 liter(s)**
- Total mash volume **25.1 liter(s)**

Steps

- Temp **66 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **18.8 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **10 min** at **78C**
- Sparge using **2.7 liter(s)** of **76C** water or to achieve **15.2 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------------|----------------|--------|------|
| Grain | Viking Pale Ale malt | 3.1 kg (49.4%) | 80 % | 5 |
| Grain | Strzegom Monachijski typ II | 1 kg (15.9%) | 79 % | 22 |
| Grain | Strzegom Wiedeński | 0.5 kg (8%) | 79 % | 12 |
| Grain | Bestmalz Carmel Pils | 0.5 kg (8%) | 75 % | 5 |
| Grain | Special B Malt | 0.3 kg (4.8%) | 65.2 % | 315 |
| Grain | Słód pszeniczny Bestmalz | 0.2 kg (3.2%) | 82 % | 5 |
| Grain | Płatki owsiane | 0.4 kg (6.4%) | 85 % | 3 |
| Grain | Weyermann - Chocolate Rye | 0.1 kg (1.6%) | 20 % | 493 |
| Grain | Strzegom Czekoladowy 400 | 0.12 kg (1.9%) | 68 % | 400 |
| Grain | Carafa III | 0.05 kg (0.8%) | 70 % | 1034 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|--------|--------|--------|------------|
| Boil | Simcoe | 20 g | 60 min | 13.2 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|----------------------|-------------|-------------|---------------|-------------------|
| Danstar - Nottingham | Ale | Slant | 500 ml | Danstar |

Extras

| Type | Name | Amount | Use for | Time |
|-------------|----------------|---------------|----------------|-------------|
| Spice | wędzona śliwka | 200 g | Boil | 5 min |
| Spice | wędzona śliwka | 20 g | Secondary | 10 day(s) |