

Porter Opalenicki v1

- Gravity **22 BLG**
- ABV **9.9 %**
- IBU **66**
- SRM **58.5**
- Style **Baltic Porter**

Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.8 liter(s)**

Mash information

- Mash efficiency **72 %**
- Liquor-to-grist ratio **3.2 liter(s) / kg**
- Mash size **24.3 liter(s)**
- Total mash volume **31.9 liter(s)**

Steps

- Temp **68 C**, Time **60 min**
- Temp **75 C**, Time **1 min**

Mash step by step

- Heat up **24.3 liter(s)** of strike water to **75.5C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **1 min** at **75C**
- Sparge using **11.1 liter(s)** of **76C** water or to achieve **27.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|----------------|---------------------------------|----------------|--------|-----|
| Grain | Strzegom Wiedeński | 3 kg (32.3%) | 79 % | 10 |
| Grain | Monachijski | 2 kg (21.5%) | 80 % | 16 |
| Grain | Pilzneński | 1.2 kg (12.9%) | 81 % | 4 |
| Grain | Special B Malt | 0.5 kg (5.4%) | 65.2 % | 315 |
| Grain | Caraaroma | 0.5 kg (5.4%) | 78 % | 400 |
| Grain | Biscuit Malt | 0.2 kg (2.2%) | 79 % | 45 |
| Grain | Jęczmień palony | 0.2 kg (2.2%) | 55 % | 985 |
| Liquid Extract | ekstrakt słodowy ciemny Bruntal | 1.7 kg (18.3%) | 90 % | 621 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|------------------------|--------|--------|------------|
| Boil | Marynka | 42 g | 60 min | 8.3 % |
| Boil | Hallertau Spalt Select | 15 g | 10 min | 3.4 % |
| Boil | Columbus/Tomahawk/Zeus | 35 g | 60 min | 16.8 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

| | | | | |
|---------------------------------------|-------|-------|--------|-----------------|
| Mangrove Jack's M84 Bohemian Lager | Lager | Slant | 200 ml | Mangrove Jack's |
|---------------------------------------|-------|-------|--------|-----------------|

Notes

- [https://www.wiki.piwo.org/Porter_Ba%C5%82tycki_\(Porter_Opalenicki\)_Andrzej_Smyk_\(anteks\)](https://www.wiki.piwo.org/Porter_Ba%C5%82tycki_(Porter_Opalenicki)_Andrzej_Smyk_(anteks))
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