

## Porteris

- Gravity **20.2 BLG**
- ABV **8.9 %**
- IBU **36**
- SRM **45.7**
- Style **Russian Imperial Stout**

### Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **25.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.9 liter(s)**

### Mash information

- Mash efficiency **71 %**
- Liquor-to-grist ratio **2.5 liter(s) / kg**
- Mash size **24.3 liter(s)**
- Total mash volume **34 liter(s)**

### Steps

- Temp **67 C**, Time **60 min**

### Mash step by step

- Heat up **24.3 liter(s)** of strike water to **76.4C**
- Add grains
- Keep mash **60 min** at **67C**
- Sparge using **17.3 liter(s)** of **76C** water or to achieve **31.9 liter(s)** of wort

### Fermentables

| Type  | Name                             | Amount        | Yield  | EBC  |
|-------|----------------------------------|---------------|--------|------|
| Grain | Strzegom Wiedeński               | 5 kg (46.7%)  | 79 %   | 10   |
| Grain | Strzegom Monachijski typ I       | 3 kg (28%)    | 79 %   | 16   |
| Grain | Caraaroma                        | 0.5 kg (4.7%) | 78 %   | 400  |
| Grain | Słód Caramunich Typ II Weyermann | 0.5 kg (4.7%) | 73 %   | 120  |
| Grain | Fawcett - Pale Chocolate         | 0.5 kg (4.7%) | 71 %   | 1200 |
| Sugar | Candi Sugar, Amber               | 1 kg (9.3%)   | 78.3 % | 148  |
| Grain | Strzegom Czekoladowy ciemny      | 0.2 kg (1.9%) | 68 %   | 1200 |

### Hops

| Use for | Name  | Amount | Time   | Alpha acid |
|---------|-------|--------|--------|------------|
| Boil    | lunga | 50 g   | 60 min | 11 %       |

### Yeasts

| Name                 | Type  | Form  | Amount | Laboratory       |
|----------------------|-------|-------|--------|------------------|
| FM31 Bawarska Dolina | Lager | Slant | 500 ml | Fermentum Mobile |

### Extras

| Type   | Name  | Amount | Use for   | Time      |
|--------|---|--------|-----------|-----------|
| Flavor | płatki dębowe macerowane w whisky przez rok | 100 g  | Secondary | 20 day(s) |

### Notes

- Warka 42. warzone 29.03. Wyszło 23l 20 blg. Przy rozlewie zjedzone do 4 BLG.  
*Mar 29, 2019, 10:09 AM*