

Porter

- Gravity **20.9 BLG**
- ABV **9.3 %**
- IBU **33**
- SRM **29.5**
- Style **Baltic Porter**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **26.8 liter(s)**
- Total mash volume **35.7 liter(s)**

Steps

- Temp **70 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **26.8 liter(s)** of strike water to **78.3C**
- Add grains
- Keep mash **60 min** at **70C**
- Keep mash **10 min** at **78C**
- Sparge using **7.4 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	4 kg (44.8%)	80 %	5
Grain	Caramel sweet Viking	1 kg (11.2%)	80 %	10
Grain	Strzegom Monachijski typ II	3 kg (33.6%)	80 %	22
Grain	Strzegom Czekoladowy jasny	0.63 kg (7.1%)	68 %	400
Grain	Żytni czekoladowy Wayermann	0.3 kg (3.4%)	5 %	700

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	30 g	60 min	11.5 %
Boil	Magnum	10 g	20 min	11.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
Saflager W 34/70	Lager	Slant	300 ml	---