Porter

- Gravity 22 BLG
- ABV **9.9** %
- IBU 47
- SRM **38.7**
- 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 27 liter(s)
- Total mash volume 36 liter(s)

Steps

- Temp **62 C**, Time **30 min** Temp **72 C**, Time **30 min**
- Temp 78 C, Time 0 min

Mash step by step

- Heat up 27 liter(s) of strike water to 69C
- Add grains
- Keep mash 30 min at 62C
- Keep mash 30 min at 72C
- Keep mash 0 min at 78C
- Sparge using 7.3 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	8 kg (88.9%)	81 %	4
Grain	Słód czekoladowy 800 EBC	1 kg (11.1%)	75 %	800

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Cascade PL	120 g	60 min	5.2 %

Yeasts

Name	Туре	Form	Amount	Laboratory
FM41 Gwoździe i Banany	Wheat	Liquid	300 ml	Fermentum Mobile