

Porter Bałtycki

- Gravity **21.1 BLG**
- ABV **9.4 %**
- IBU **30**
- SRM **30.7**
- 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 **25.7 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **24.9 liter(s)**
- Total mash volume **33.2 liter(s)**

Steps

- Temp **55 C**, Time **10 min**
- Temp **65 C**, Time **50 min**
- Temp **75 C**, Time **15 min**
- Temp **77 C**, Time **5 min**

Mash step by step

- Heat up **24.9 liter(s)** of strike water to **60.8C**
- Add grains
- Keep mash **10 min** at **55C**
- Keep mash **50 min** at **65C**
- Keep mash **15 min** at **75C**
- Keep mash **5 min** at **77C**
- Sparge using **9.1 liter(s)** of **76C** water or to achieve **25.7 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Wiedeński	2.5 kg (30.1%)	79 %	10
Grain	Monachijski typ II 20-25 EBC Weyermann	3 kg (36.1%)	80 %	20
Grain	Pilzneński	2 kg (24.1%)	81 %	4
Grain	Caraaroma	0.3 kg (3.6%)	78 %	400
Grain	Strzegom Czekoladowy 1200	0.3 kg (3.6%)	68 %	1202
Grain	Strzegom Karmel 150	0.2 kg (2.4%)	75 %	150

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnat	30 g	60 min	10 %
Boil	Marynka	30 g	10 min	8.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
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WLP800 - Pilsner Lager Yeast	Lager	Liquid	300 ml	White Labs
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