# **Porter Baltycki**

- Gravity 20.2 BLG
- ABV 8.9 %
- IBU 29
- SRM **35.1**
- 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 25.5 liter(s)
- Total mash volume 34 liter(s)

#### **Steps**

- Temp 55 C, Time 5 min
  Temp 62 C, Time 60 min
  Temp 72 C, Time 20 min
- Temp **76 C**, Time **10 min**

### Mash step by step

- Heat up 25.5 liter(s) of strike water to 60.8C
- Add grains
- Keep mash 5 min at 55C
- Keep mash 60 min at 62C
- Keep mash 20 min at 72C
- Keep mash 10 min at 76C
- Sparge using 8.3 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Pale Ale	4.5 kg <i>(52.9%)</i>	%	
Grain	Münchner Malz I	2 kg <i>(23.5%)</i>	78 %	20
Grain	Caramunich 2	1 kg <i>(11.8%)</i>	73 %	120
Grain	Caraaroma	0.5 kg <i>(5.9%)</i>	78 %	400
Grain	Carafa II	0.2 kg <i>(2.4%)</i>	70 %	1100
Grain	Pale Chocolate	0.3 kg <i>(3.5%)</i>	71 %	500

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	30 g	60 min	10 %
Boil	Lublin (Lubelski)	30 g	15 min	4 %

## **Yeasts**

Name	Туре	Form	Amount	Laboratory
gozdawa czech pilsner 18	Lager	Dry	22 g	Wyeast Labs