Polish Ale

- Gravity 11.7 BLG
- ABV 4.7 %
- IBU **32**
- SRM **4.8**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 23 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 27.5 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 3.3 liter(s) / kg
- Mash size 17.8 liter(s)
- Total mash volume 23.2 liter(s)

Steps

- Temp 67 C, Time 60 min
 Temp 72 C, Time 10 min
- Temp **76 C**, Time **1 min**

Mash step by step

- Heat up 17.8 liter(s) of strike water to 74.1C
- Add grains
- Keep mash 60 min at 67C
- Keep mash 10 min at 72C
- Keep mash 1 min at 76C
- Sparge using 15.1 liter(s) of 76C water or to achieve 27.5 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Briess - Pilsen Malt	4 kg (74.1%)	80.5 %	2
Grain	Munich Malt	1.2 kg <i>(22.2%)</i>	80 %	18
Grain	cara 30	0.2 kg (3.7%)	75 %	30

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	20 g	50 min	13 %
Boil	Lublin (Lubelski)	30 g	10 min	4 %
Boil	Sybilla	20 g	5 min	3.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	Safale