Polaris Pilsner

- Gravity 13.6 BLG
- ABV **5.6** %
- IBU **31**
- SRM **5.5**
- Style Classic American Pilsner

Batch size

- Expected quantity of finished beer 23 liter(s)
- Trub loss 5 %
- Size with trub loss 25.3 liter(s)
- · Boil time 70 min
- Evaporation rate 8 %/h
- Boil size 30.2 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 20.9 liter(s)
- Total mash volume 27.9 liter(s)

Steps

- Temp **55** C, Time **10 min** Temp **63** C, Time **40 min** Temp **72** C, Time **20 min**
- Temp **76 C**, Time **20 min**

Mash step by step

- Heat up 20.9 liter(s) of strike water to 60.8C
- Add grains
- Keep mash 10 min at 55C
- Keep mash 40 min at 63C
- Keep mash 20 min at 72C
- Keep mash 20 min at 76C
- Sparge using 16.3 liter(s) of 76C water or to achieve 30.2 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Castle Malting - Pilzneński	4.5 kg <i>(64.5%)</i>	80 %	3
Grain	Vienna - Castle Malting	1.5 kg <i>(21.5%)</i>	85 %	6
Grain	płatki ryżowe	0.23 kg <i>(3.3%)</i>	50 %	2
Grain	Cara Blonde - Castle Malting	0.5 kg <i>(7.2%)</i>	78 %	20
Grain	Simpsons - Caramalt	0.25 kg <i>(3.6%)</i>	76 %	60

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Polaris	15 g	60 min	20.5 %
Whirlpool	Polaris	20 g	5 min	20.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
California Lager M54	Lager	Dry	11.5 g	

Extras

Туре	Name	Amount	Use for	Time
Fining	protafloc	1 g	Boil	15 min