polski pils

- Gravity 10.7 BLG
- ABV 4.3 %
- IBU 39
- SRM **3**
- Style German Pilsner (Pils)

Batch size

- Expected quantity of finished beer 35 liter(s)
- Trub loss 2 %
- Size with trub loss 36.4 liter(s)
- Boil time 75 min
- Evaporation rate 10 %/h
- Boil size 41.7 liter(s)

Mash information

- Mash efficiency 85 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 18 liter(s)
- Total mash volume 24 liter(s)

Steps

- Temp 62 C, Time 10 min
 Temp 72 C, Time 45 min
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up 18 liter(s) of strike water to 69C
- Add grains
- Keep mash 10 min at 62C
- Keep mash 45 min at 72C
- Keep mash 5 min at 76C
- Sparge using 29.7 liter(s) of 76C water or to achieve 41.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	6 kg <i>(100%)</i>	81 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
First Wort	Marynka	20 g	120 min	8.8 %
Boil	Marynka	30 g	45 min	8.8 %
Aroma (end of boil)	Marynka	50 g	5 min	8.8 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Wyeast - 2278 Czech Pils	Lager	Slant	250 ml	Wyeast Labs