polski pils

- Gravity 13.6 BLG
- ABV **5.6** %
- IBU **28**
- SRM 3.7
- Style German Pilsner (Pils)

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 81 %
- Liquor-to-grist ratio 4.2 liter(s) / kg
- Mash size 21 liter(s)
- Total mash volume 26 liter(s)

Steps

- Temp **52 C**, Time **10 min** Temp **68 C**, Time **60 min** Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up 21 liter(s) of strike water to 55.8C
- Add grains
- Keep mash 10 min at 52C
- Keep mash 60 min at 68C
- Keep mash 30 min at 72C
- Keep mash 5 min at 78C
- Sparge using 9.3 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	5 kg (100%)	81 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	25 g	60 min	9.4 %
Aroma (end of boil)	Lublin (Lubelski)	20 g	10 min	4.7 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Saflager W 34/70	Lager	Dry	23 g	Fermentis