Rye Pilsner

- Gravity 12.1 BLG
- ABV 4.9 %
- IBU 46
- SRM **4**
- Style German Pilsner (Pils)

Batch size

- Expected quantity of finished beer 21 liter(s)
- Trub loss 5 %
- Size with trub loss 22.1 liter(s)
- · Boil time 90 min
- Evaporation rate 12 %/h
- Boil size 29.7 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 5.6 liter(s) / kg
- Mash size 29.1 liter(s)
- Total mash volume 34.3 liter(s)

Steps

- Temp **62 C**, Time **120 min** Temp **72 C**, Time **60 min** Temp **78 C**, Time **15 min**

- Temp **50 C**, Time **15 min**

Mash step by step

- Heat up 29.1 liter(s) of strike water to 52.7C
- Add grains
- Keep mash 15 min at 50C
- Keep mash 120 min at 62C
- Keep mash 60 min at 72C
- Keep mash 15 min at 78C
- Sparge using 5.8 liter(s) of 76C water or to achieve 29.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	4 kg (76.9%)	81 %	4
Grain	Strzegom Żytni	1 kg (19.2%)	85 %	8
Grain	Viking Dekstrynowy	0.2 kg <i>(3.8%)</i>	79 %	13

Hops

Use for	Name	Amount	Time	Alpha acid
First Wort	Magnum	15 g	90 min	12 %
Boil	Kohatu	30 g	15 min	7.8 %
Boil	Kohatu	35 g	5 min	7.8 %
Whirlpool	Kohatu	35 g	15 min	7.8 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Saflager W 34/70	Lager	Slant	200 ml	Fermentis

Extras

Туре	Name	Amount	Use for	Time
Fining	whirlfloc	3 g	Boil	15 min