Pils 12.5 blg

- Gravity 12.6 BLG
- ABV **5.1** %
- IBU **45**
- SRM **4.9**
- 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 65 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 17.1 liter(s)
- Total mash volume 22.8 liter(s)

Steps

- Temp **55 C**, Time **10 min** Temp **64 C**, Time **45 min** Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up 17.1 liter(s) of strike water to 60.8C
- Add grains
- Keep mash 10 min at 55C
- Keep mash 45 min at 64C
- Keep mash 15 min at 72C
- Keep mash 10 min at 78C
- Sparge using 13.9 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	4 kg (70.2%)	82 %	4
Grain	Viking Vienna Malt	1.2 kg <i>(21.1%)</i>	79 %	7
Grain	Viking Munich Malt	0.5 kg (8.8%)	78 %	18

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	20 g	60 min	15.5 %
Boil	Hallertau	20 g	30 min	4.5 %
Boil	Hallertau	15 g	10 min	4.5 %
Aroma (end of boil)	Hallertau	15 g	1 min	4.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Saflager S-23	Lager	Dry	12 g	Fermentis Division of S.I.Lesaffre

Extras

Туре	Name	Amount	Use for	Time
Fining	mech irlandzki	10 g	Boil	10 min