Pils

- · Gravity 20 BLG
- ABV ---
- IBU **33**
- SRM **7.9**
- Style German Pilsner (Pils)

Batch size

- Expected quantity of finished beer 19 liter(s)
- Trub loss 5 %
- Size with trub loss 19.9 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 24.1 liter(s)

Mash information

- Mash efficiency **75** %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 21.1 liter(s)
- Total mash volume 28.1 liter(s)

Steps

- Temp 63 C, Time 70 min
 Temp 72 C, Time 10 min

Mash step by step

- Heat up 21.1 liter(s) of strike water to 70.2C
- Add grains
- Keep mash 70 min at 63C
- Keep mash 10 min at 72C
- Sparge using 10 liter(s) of 76C water or to achieve 24.1 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	ЕВС
Grain	Pilsner (2 Row) Ger	6.75 kg <i>(96.2%)</i>	81 %	4
Grain	Amber Malt	0.1 kg <i>(1.4%)</i>	75 %	43
Grain	Caramel/Crystal Malt - 40L	0.17 kg (2.4%)	74 %	79

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Northern Brewer	25 g	60 min	9 %
Boil	Saaz (USA)	35 g	30 min	3.75 %
Boil	Saaz (USA)	30 g	5 min	3.75 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Saflager S-23	Lager	Dry	11.5 g	Fermentis Division of S.I.Lesaffre