Pils Niemiecki

- Gravity 12.1 BLG
- ABV 4.9 %
- IBU 43
- SRM **3.9**
- Style German Pilsner (Pils)

Batch size

- Expected quantity of finished beer 10 liter(s)
- Trub loss 5 %
- Size with trub loss 10.5 liter(s)
- · Boil time 90 min
- Evaporation rate 10 %/h
- Boil size 13.2 liter(s)

Mash information

- Mash efficiency 65 %
- Liquor-to-grist ratio 5 liter(s) / kg
- Mash size 13.5 liter(s)
- Total mash volume 16.2 liter(s)

Steps

- Temp 67 C, Time 15 min
 Temp 72 C, Time 15 min
- Temp 78 C, Time 2 min

Mash step by step

- Heat up 13.5 liter(s) of strike water to 71.7C
- · Add grains
- Keep mash 15 min at 67C
- Keep mash 15 min at 72C
- Keep mash 2 min at 78C
- Sparge using 2.4 liter(s) of 76C water or to achieve 13.2 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	2.7 kg (100%)	82 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	15 g	60 min	12.8 %
Whirlpool	Hallertau Mittelfruh	25 g	0 min	3.8 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Saflager W 34/70	Lager	Slant	250 ml	Fermentis