German Pils

- Gravity 11.7 BLG
- ABV **4.7** %
- IBU 33
- SRM **3.5**
- Style German Pilsner (Pils)

Batch size

- Expected quantity of finished beer 18 liter(s)
- Trub loss 5 %
- Size with trub loss 18.9 liter(s)
- Boil time 80 min
- Evaporation rate 10 %/h
- Boil size 23.5 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 12.6 liter(s)
- Total mash volume 16.8 liter(s)

Steps

- Temp **65 C**, Time **45 min** Temp **72 C**, Time **30 min**
- Temp 76 C, Time 5 min

Mash step by step

- Heat up 12.6 liter(s) of strike water to 72.5C
- Add grains
- Keep mash 45 min at 65C
- Keep mash 30 min at 72C
- Keep mash 5 min at 76C
- Sparge using 15.1 liter(s) of 76C water or to achieve 23.5 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	BESTMALZ - Best Pilsen	4 kg <i>(95.2%)</i>	80.5 %	4
Grain	Chit Malt	0.2 kg <i>(4.8%)</i>	50 %	2

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Saaz (Czech Republic)	10 g	80 min	4.5 %
Boil	Saaz (Czech Republic)	30 g	30 min	4.5 %
Boil	Hallertau Mittelfruh	20 g	30 min	3 %
Boil	Saaz (Czech Republic)	10 g	5 min	4.5 %
Boil	Hallertau Mittelfruh	20 g	5 min	3 %
Whirlpool	Tomyski	50 g	15 min	2.8 %
Whirlpool	Hallertau Mittelfruh	10 g	15 min	3 %

Yeasts

Name	Type	Form	Amount	Laboratory
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