German Pils - PWZ3

- Gravity 11.4 BLG
- ABV 4.6 %
- IBU **31**
- SRM 3.8
- Style German Pilsner (Pils)

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 10 %
- Size with trub loss 24 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 28.6 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 14.3 liter(s)
- Total mash volume 19 liter(s)

Steps

- Temp 55 C, Time 5 min
 Temp 63 C, Time 50 min
 Temp 72 C, Time 20 min
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up 14.3 liter(s) of strike water to 60.8C
- Add grains
- Keep mash 5 min at 55C
- Keep mash 50 min at 63C
- Keep mash 20 min at 72C
- Keep mash 5 min at 76C
- Sparge using 19.1 liter(s) of 76C water or to achieve 28.6 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	BESTMALZ - Best Pilsen	4.2 kg <i>(88.4%)</i>	80.5 %	4
Grain	BESTMALZ - Best Minich	0.5 kg <i>(10.5%)</i>	80.5 %	16
Grain	Weyermann - Acidulated Malt	0.05 kg <i>(1.1%)</i>	80 %	6

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	20 g	50 min	13.5 %
Boil	Tradition	25 g	10 min	5.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
FM31 Bawarska Dolina	Lager	Slant	200 ml	Fermentum Mobile