

## pils

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- Gravity **11.4 BLG**
- ABV **4.6 %**
- IBU **38**
- SRM **3.3**
- Style **German Pilsner (Pils)**

### Batch size

- Expected quantity of finished beer **24 liter(s)**
- Trub loss **5 %**
- Size with trub loss **25.2 liter(s)**
- Boil time **80 min**
- Evaporation rate **8 %/h**
- Boil size **30 liter(s)**

### Mash information

- Mash efficiency **96 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **14 liter(s)**
- Total mash volume **18 liter(s)**

### Steps

- Temp **51 C**, Time **15 min**
- Temp **67 C**, Time **60 min**

### Mash step by step

- Heat up **14 liter(s)** of strike water to **55.4C**
- Add grains
- Keep mash **15 min** at **51C**
- Keep mash **60 min** at **67C**
- Sparge using **20 liter(s)** of **76C** water or to achieve **30 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Bohemian Pilsner Malt	2 kg (50%)	81 %	4
Grain	Weyermann - Pale Ale Malt	2 kg (50%)	85 %	7

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Perle	30 g	60 min	6.7 %
Boil	Hallertau Tradition PL	30 g	30 min	5.6 %
Boil	Hallertau Tradition PL	30 g	10 min	5.6 %