

## PILS 2

- Gravity **11 BLG**
- ABV **4.4 %**
- IBU **36**
- SRM **4.1**
- Style **German Pilsner (Pils)**

### Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **4 %**
- Size with trub loss **21.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **24.9 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **14.7 liter(s)**
- Total mash volume **18.9 liter(s)**

### Steps

- Temp **65 C**, Time **50 min**
- Temp **72 C**, Time **30 min**

### Mash step by step

- Heat up **14.7 liter(s)** of strike water to **71.4C**
- Add grains
- Keep mash **50 min** at **65C**
- Keep mash **30 min** at **72C**
- Sparge using **14.4 liter(s)** of **76C** water or to achieve **24.9 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	3.1 kg (73.8%)	81 %	4
Grain	Pszeniczny	0.7 kg (16.7%)	85 %	4
Grain	Abbey Castle	0.2 kg (4.8%)	80 %	45
Grain	Weyermann - Carapils	0.2 kg (4.8%)	78 %	4

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	30 g	60 min	10 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Munich Lager 2308	Lager	Liquid	300 ml	Wyeast