

## pils wedzony 4

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- Gravity **10.2 BLG**
- ABV **4.1 %**
- IBU **36**
- SRM **3.2**
- Style **Other Smoked Beer**

### Batch size

- Expected quantity of finished beer **26 liter(s)**
- Trub loss **5 %**
- Size with trub loss **27.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **8 %/h**
- Boil size **31.8 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 **52 C**, Time **15 min**
- Temp **62 C**, Time **15 min**
- Temp **72 C**, Time **45 min**

### Mash step by step

- Heat up **14 liter(s)** of strike water to **56.6C**
- Add grains
- Keep mash **15 min** at **52C**
- Keep mash **15 min** at **62C**
- Keep mash **45 min** at **72C**
- Sparge using **21.8 liter(s)** of **76C** water or to achieve **31.8 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Smoked Malt	2 kg (50%)	81 %	5
Grain	Castle Pale Ale	2 kg (50%)	80 %	6.5

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	30 g	60 min	10.5 %
Boil	Hersbrucker	15 g	15 min	2.8 %
Boil	Marynka	15 g	15 min	6.5 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Saflager W 34/70	Lager	Slant	500 ml	Fermentis