

## #30 american pils 12,8

- Gravity **12.9 BLG**
- ABV ---
- IBU **41**
- SRM **4.2**
- Style **Bohemian Pilsener**

### Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.8 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **29.9 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15.8 liter(s)**
- Total mash volume **21 liter(s)**

### Steps

- Temp **64 C**, Time **35 min**
- Temp **72 C**, Time **25 min**
- Temp **78 C**, Time **5 min**

### Mash step by step

- Heat up **15.8 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **35 min** at **64C**
- Keep mash **25 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **19.4 liter(s)** of **76C** water or to achieve **29.9 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	5 kg (95.2%)	81 %	4
Grain	Weyermann - Carapils	0.25 kg (4.8%)	78 %	4

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	15 g	60 min	13 %
Boil	citra	20 g	30 min	12.4 %
Boil	Citra	30 g	0 min	12.4 %
Dry Hop	citra	50 g	5 day(s)	12.4 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Saflager W 34/70	Lager	Slant	200 ml	Fermentis

### Extras

Type	Name	Amount	Use for	Time
Water Agent	gips	5 g	Mash	60 min

Water Agent	kwask mlekowy	2 g	Mash	60 min
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