

Pils

- Gravity **12.4 BLG**
- ABV ---
- IBU **34**
- SRM **3.8**
- Style **Bohemian Pilsener**

Batch size

- Expected quantity of finished beer **45 liter(s)**
- Trub loss **5 %**
- Size with trub loss **48.1 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **60.5 liter(s)**

Mash information

- Mash efficiency **80.585 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **31.1 liter(s)**
- Total mash volume **41.5 liter(s)**

Steps

- Temp **50 C**, Time **30 min**
- Temp **64 C**, Time **30 min**
- Temp **70 C**, Time **30 min**
- Temp **77 C**, Time **0 min**

Mash step by step

- Heat up **31.1 liter(s)** of strike water to **55C**
- Add grains
- Keep mash **30 min** at **50C**
- Keep mash **30 min** at **64C**
- Keep mash **30 min** at **70C**
- Keep mash **0 min** at **77C**
- Sparge using **39.8 liter(s)** of **76C** water or to achieve **60.5 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|--------------------------|-----------------|-------|-----|
| Grain | Weyermann - Pilsner Malt | 9.89 kg (95.3%) | 81 % | 5 |
| Grain | Weyermann - Carapils | 0.49 kg (4.7%) | 78 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|-----------------------|----------|--------|------------|
| Boil | Saaz (Czech Republic) | 123.63 g | 60 min | 4.5 % |
| Boil | Saaz (Czech Republic) | 37.09 g | 15 min | 4.5 % |
| Boil | Saaz (Czech Republic) | 61.81 g | 5 min | 4.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------------------|-------|------|---------|------------|
| Saflager W 34/70 | Lager | Dry | 28.43 g | Fermentis |

Extras

Recipe has been printed via **BREWNESS.com** - a complex online solution for homebrewers to track brewing process easily.

| Type | Name | Amount | Use for | Time |
|--------|--------------|--------|---------|--------|
| Fining | Whirlflock T | 3.09 g | Boil | 10 min |