

Pils

- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **47**
- SRM **3.7**
- Style **Bohemian Pilsener**

Batch size

- Expected quantity of finished beer **11 liter(s)**
- Trub loss **5 %**
- Size with trub loss **11.6 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **13.9 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **7.8 liter(s)**
- Total mash volume **10.4 liter(s)**

Steps

- Temp **50 C**, Time **30 min**
- Temp **64 C**, Time **30 min**
- Temp **70 C**, Time **30 min**
- Temp **75 C**, Time **1 min**

Mash step by step

- Heat up **7.8 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 **1 min** at **75C**
- Sparge using **8.7 liter(s)** of **76C** water or to achieve **13.9 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|----------------|-------|-----|
| Grain | Pilzneński | 2.5 kg (96.2%) | 81 % | 4 |
| Grain | Weyermann - Carapils | 0.1 kg (3.8%) | 78 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|-------------------|--------|--------|------------|
| Boil | Marynka | 10 g | 60 min | 6.5 % |
| Boil | Marynka | 10 g | 30 min | 6.5 % |
| Boil | Lublin (Lubelski) | 10 g | 30 min | 3 % |
| Boil | Marynka | 10 g | 5 min | 6.5 % |
| Boil | Lublin (Lubelski) | 10 g | 5 min | 3 % |
| Aroma (end of boil) | Marynka | 10 g | 1 min | 6.5 % |
| Aroma (end of boil) | Lublin (Lubelski) | 10 g | 1 min | 4 % |
| Whirlpool | Lublin (Lubelski) | 20 g | 30 min | 4 % |
| Whirlpool | Marynka | 10 g | 30 min | 6.5 % |

Yeasts

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

| Name | Type | Form | Amount | Laboratory |
|-------------------|-------------|-------------|---------------|-------------------|
| Safalager W-34/70 | Lager | Dry | 11.5 g | Fermentis |

Extras

| Type | Name | Amount | Use for | Time |
|-------------|----------------|---------------|----------------|-------------|
| Fining | Mech irlandzki | 2 g | Boil | 10 min |