

## Pils

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- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **50**
- SRM **3.7**
- Style **German Pilsner (Pils)**

### Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **2 %**
- Size with trub loss **21.4 liter(s)**
- Boil time **60 min**
- Evaporation rate **8 %/h**
- Boil size **24.3 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **17.5 liter(s)**
- Total mash volume **22.5 liter(s)**

### Steps

- Temp **62 C**, Time **30 min**
- Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **0 min**

### Mash step by step

- Heat up **17.5 liter(s)** of strike water to **68C**
- Add grains
- Keep mash **30 min** at **62C**
- Keep mash **30 min** at **72C**
- Keep mash **0 min** at **78C**
- Sparge using **11.8 liter(s)** of **76C** water or to achieve **24.3 liter(s)** of wort

### Fermentables

| Type  | Name                     | Amount      | Yield | EBC |
|-------|--------------------------|-------------|-------|-----|
| Grain | Słód PILZNEŃSKI Strzegom | 5 kg (100%) | 80 %  | 4   |

### Hops

| Use for             | Name        | Amount | Time   | Alpha acid |
|---------------------|-------------|--------|--------|------------|
| Boil                | Sybilla     | 35 g   | 60 min | 6.3 %      |
| Boil                | Chinook     | 15 g   | 30 min | 13 %       |
| Boil                | Cascade USA | 20 g   | 10 min | 7.1 %      |
| Aroma (end of boil) | Szyszka     | 40 g   | 5 min  | 4 %        |

### Yeasts

| Name             | Type  | Form  | Amount | Laboratory |
|------------------|-------|-------|--------|------------|
| Saflager W 34/70 | Lager | Slant | 250 ml | ---        |