

## Sosnowe amber ale

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- Gravity **13.1 BLG**
- ABV **5.3 %**
- IBU **26**
- SRM **25.3**
- Style **American Brown Ale**

### Batch size

- Expected quantity of finished beer **12 liter(s)**
- Trub loss **5 %**
- Size with trub loss **13.2 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **15.8 liter(s)**

### Mash information

- Mash efficiency **65 %**
- Liquor-to-grist ratio **3.8 liter(s) / kg**
- Mash size **14.3 liter(s)**
- Total mash volume **18 liter(s)**

### Steps

- Temp **68 C**, Time **60 min**
- Temp **76 C**, Time **5 min**

### Mash step by step

- Heat up **14.3 liter(s)** of strike water to **74.3C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **5 min** at **76C**
- Sparge using **5.3 liter(s)** of **76C** water or to achieve **15.8 liter(s)** of wort

### Fermentables

| Type  | Name                                   | Amount         | Yield | EBC  |
|-------|--|----------------|-------|------|
| Grain | Pilzneński                             | 2 kg (53.3%)   | 81 %  | 4    |
| Grain | Strzegom Wiedeński                     | 0.5 kg (13.3%) | 79 %  | 10   |
| Grain | Monachijski                            | 1 kg (26.7%)   | 80 %  | 16   |
| Grain | Fawcett -<br>Pszeniczny<br>Czekoladowy | 0.25 kg (6.7%) | 73 %  | 1001 |

### Hops

| Use for             | Name       | Amount | Time   | Alpha acid |
|---------------------|------------|--------|--------|------------|
| Boil                | lunga      | 20 g   | 20 min | 11 %       |
| Aroma (end of boil) | Chinook PL | 20 g   | 5 min  | 5.2 %      |

### Yeasts

| Name         | Type | Form  | Amount | Laboratory |
|--------------|------|-------|--------|------------|
| Safale US-05 | Ale  | Slant | 100 ml | Safale     |

### Extras

| Type   | Name       | Amount | Use for | Time  |
|--------|------------|--------|---------|-------|
| Flavor | Pędy sosny | 150 g  | Boil    | 5 min |

|        |            |       |           |          |
|--------|------------|-------|-----------|----------|
| Flavor | Pędy sosny | 100 g | Secondary | 7 day(s) |
|--------|------------|-------|-----------|----------|