

## sosnowa ipa

- Gravity **14.7 BLG**
- ABV **6.1 %**
- IBU **39**
- SRM **5**
- Style **American IPA**

### Batch size

- Expected quantity of finished beer **40 liter(s)**
- Trub loss **5 %**
- Size with trub loss **44 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **52.8 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **37 liter(s)**
- Total mash volume **49.3 liter(s)**

### Steps

- Temp **62 C**, Time **30 min**
- Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **10 min**

### Mash step by step

- Heat up **37 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **30 min** at **62C**
- Keep mash **30 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **28.1 liter(s)** of **76C** water or to achieve **52.8 liter(s)** of wort

### Fermentables

| Type  | Name                  | Amount         | Yield | EBC |
|-------|-----------------------|----------------|-------|-----|
| Grain | Viking Pale Ale malt  | 10 kg (81.1%)  | 80 %  | 5   |
| Grain | Płatki owsiane        | 0.83 kg (6.8%) | 85 %  | 3   |
| Grain | Płatki pszeniczne     | 1 kg (8.1%)    | 85 %  | 3   |
| Grain | Karmelowy Jasny 30EBC | 0.5 kg (4.1%)  | 75 %  | 30  |

### Hops

| Use for | Name   | Amount  | Time   | Alpha acid |
|---------|--------|---------|--------|------------|
| Boil    | lunga  | 33.34 g | 60 min | 10.3 %     |
| Boil    | lunga  | 66.66 g | 20 min | 10.3 %     |
| Boil    | Simcoe | 100 g   | 1 min  | 12.1 %     |

### Yeasts

| Name  | Type | Form  | Amount    | Laboratory |
|-------|------|-------|-----------|------------|
| us-05 | Ale  | Slant | 333.34 ml | ---        |

### Extras

| Type | Name | Amount | Use for | Time |
|------|------|--------|---------|------|
|------|------|--------|---------|------|

|        |             |        |      |        |
|--------|-------------|--------|------|--------|
| Flavor | pȩdy sosny | 1000 g | Boil | 10 min |
|--------|-------------|--------|------|--------|