

## #25 session APA

- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **41**
- SRM **3.9**
- Style **American Pale Ale**

### Batch size

- Expected quantity of finished beer **45 liter(s)**
- Trub loss **5 %**
- Size with trub loss **47.3 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **57.8 liter(s)**

### Mash information

- Mash efficiency **78 %**
- Liquor-to-grist ratio **2 liter(s) / kg**
- Mash size **20.6 liter(s)**
- Total mash volume **30.9 liter(s)**

### Steps

- Temp **67 C**, Time **60 min**
- Temp **75 C**, Time **10 min**

### Mash step by step

- Heat up **20.6 liter(s)** of strike water to **78.8C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **10 min** at **75C**
- Sparge using **47.5 liter(s)** of **76C** water or to achieve **57.8 liter(s)** of wort

### Fermentables

| Type  | Name                 | Amount         | Yield | EBC |
|-------|----------------------|----------------|-------|-----|
| Grain | Viking Pale Ale malt | 10.3 kg (100%) | 78 %  | 5   |

### Hops

| Use for  | Name    | Amount | Time     | Alpha acid |
|--|---------|--------|----------|------------|
| Boil   | Admiral | 50 g   | 50 min   | 12.7 %     |
| Aroma (end of boil)                                | Cascade | 60 g   | 20 min   | 5.5 %      |
| Dry Hop  | Cascade | 50 g   | 3 day(s) | 5.5 %      |
| fermentor 1 - pierwszy dzień - do biotransformacji |         |        |          |            |
| Dry Hop  | Mosaic  | 50 g   | 3 day(s) | 13.2 %     |
| fermentor 2 - 4 dzień fermentacji                  |         |        |          |            |

### Yeasts

| Name         | Type | Form  | Amount | Laboratory |
|--------------|------|-------|--------|------------|
| Safale US-05 | Ale  | Slant | 480 ml | Fermentis  |

### Extras

| Type   | Name           | Amount | Use for | Time   |
|--------|----------------|--------|---------|--------|
| Fining | Mech irlandzki | 12 g   | Boil    | 10 min |