

## AiPA 02

- Gravity **14 BLG**
- ABV **5.8 %**
- IBU **43**
- SRM **8.4**
- Style **American Pale Ale**

### Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **29 liter(s)**

### Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **21.3 liter(s)**
- Total mash volume **27.4 liter(s)**

### Steps

- Temp **62 C**, Time **60 min**

### Mash step by step

- Heat up **21.3 liter(s)** of strike water to **68C**
- Add grains
- Keep mash **60 min** at **62C**
- Sparge using **13.8 liter(s)** of **76C** water or to achieve **29 liter(s)** of wort

### Fermentables

| Type  | Name                       | Amount        | Yield | EBC |
|-------|----------------------------|---------------|-------|-----|
| Grain | Strzegom Pilzneński        | 5 kg (82%)    | 80 %  | 4   |
| Grain | Strzegom Monachijski typ I | 1 kg (16.4%)  | 79 %  | 16  |
| Grain | Strzegom Karmel 600        | 0.1 kg (1.6%) | 68 %  | 601 |

### Hops

| Use for | Name       | Amount | Time   | Alpha acid |
|---------|------------|--------|--------|------------|
| Boil    | Cascade PL | 80 g   | 60 min | 5.2 %      |
| Boil    | Cascade PL | 20 g   | 20 min | 5.2 %      |

### Yeasts

| Name         | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale  | Dry  | 11.2 g | ---        |

### Extras

| Type        | Name            | Amount | Use for | Time   |
|-------------|-----------------|--------|---------|--------|
| Fining      | mech irlandzki  | 10 g   | Boil    | 10 min |
| Water Agent | gips piwowarski | 10 g   | Boil    | 60 min |