

## Orzeźwiająca APA

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **46**
- SRM **4.2**
- Style **American Pale Ale**

### Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

### Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **6 liter(s) / kg**
- Mash size **32.4 liter(s)**
- Total mash volume **37.8 liter(s)**

### Steps

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

### Mash step by step

- Heat up **32.4 liter(s)** of strike water to **70.9C**
- Add grains
- Keep mash **60 min** at **67C**
- Sparge using **-1.7 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

### Fermentables

| Type  | Name                 | Amount        | Yield | EBC |
|-------|----------------------|---------------|-------|-----|
| Grain | Viking Pale Ale malt | 4 kg (74.1%)  | 80 %  | 5   |
| Grain | Pszeniczny           | 1 kg (18.5%)  | 85 %  | 4   |
| Grain | Płatki owsiane       | 0.4 kg (7.4%) | 60 %  | 3   |

### Hops

| Use for   | Name     | Amount | Time   | Alpha acid |
|-----------|----------|--------|--------|------------|
| Boil      | Amarillo | 40 g   | 30 min | 8.5 %      |
| Whirlpool | Amarillo | 60 g   | 20 min | 8.5 %      |

### Yeasts

| Name        | Type | Form | Amount | Laboratory |
|-------------|------|------|--------|------------|
| Safale S-04 | Ale  | Dry  | 22.8 g | Fermentis  |