

# PIPA z jałowcem

- Gravity **13.8 BLG**
- ABV **5.7 %**
- IBU **59**
- SRM **5.8**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.8 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **4.6 liter(s) / kg**
- Mash size **28.1 liter(s)**
- Total mash volume **34.2 liter(s)**

## Steps

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

## Mash step by step

- Heat up **28.1 liter(s)** of strike water to **72.1C**
- Add grains
- Keep mash **60 min** at **67C**
- Sparge using **5.8 liter(s)** of **76C** water or to achieve **27.8 liter(s)** of wort

## Fermentables

| Type  | Name                     | Amount          | Yield | EBC |
|-------|--------------------------|-----------------|-------|-----|
| Grain | Briess - Pale Ale Malt   | 5.25 kg (86.1%) | 80 %  | 7   |
| Grain | Słód pszeniczny Bestmalz | 0.5 kg (8.2%)   | 82 %  | 5   |
| Grain | Karmelowy Jasny 30EBC    | 0.35 kg (5.7%)  | 75 %  | 30  |

## Hops

| Use for             | Name       | Amount | Time     | Alpha acid |
|---------------------|------------|--------|----------|------------|
| Boil                | lunga      | 30 g   | 60 min   | 11 %       |
| Aroma (end of boil) | Puławski   | 37 g   | 15 min   | 4.3 %      |
| Aroma (end of boil) | Cascade PL | 62 g   | 10 min   | 5.2 %      |
| Aroma (end of boil) | Oktawia    | 37 g   | 10 min   | 7.1 %      |
| Dry Hop             | Cascade PL | 62 g   | 7 day(s) | 5.2 %      |
| Dry Hop             | Chinook    | 37 g   | 7 day(s) | 13 %       |

## Yeasts

| Name                 | Type | Form   | Amount | Laboratory       |
|----------------------|------|--------|--------|------------------|
| FM52 Amerykański Sen | Ale  | Liquid | 30 ml  | Fermentum Mobile |

## Extras

| Type   | Name     | Amount | Use for   | Time     |
|--------|----------|--------|-----------|----------|
| Flavor | Jałowiec | 30 g   | Secondary | 7 day(s) |