

# APANPIJE?

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **32**
- SRM **3.8**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **75 min**
- Evaporation rate **10 %/h**
- Boil size **28.5 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20 liter(s)**

## Steps

- Temp **66 C**, Time **60 min**

## Mash step by step

- Heat up **15 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **66C**
- Sparge using **18.5 liter(s)** of **76C** water or to achieve **28.5 liter(s)** of wort

## Fermentables

| Type        | Name              | Amount        | Yield | EBC |
|-------------|-------------------|---------------|-------|-----|
| Grain       | Pilzneński        | 2 kg (37.7%)  | 81 %  | 4   |
| Grain       | Strzegom Pale Ale | 2 kg (37.7%)  | 79 %  | 6   |
| Grain       | Pszeniczny        | 1 kg (18.9%)  | 85 %  | 4   |
| Dry Extract | Laktoza           | 0.3 kg (5.7%) | --- % | --- |

## Hops

| Use for | Name   | Amount | Time     | Alpha acid |
|---------|--------|--------|----------|------------|
| Boil    | Mosaic | 10 g   | 30 min   | 10 %       |
| Boil    | Citra  | 15 g   | 30 min   | 12 %       |
| Boil    | Citra  | 15 g   | 10 min   | 12 %       |
| Boil    | Mosaic | 10 g   | 10 min   | 10 %       |
| Boil    | Citra  | 25 g   | 0 min    | 12 %       |
| Boil    | Mosaic | 15 g   | 0 min    | 10 %       |
| Dry Hop | Citra  | 25 g   | 2 day(s) | 12 %       |
| Dry Hop | Mosaic | 15 g   | 2 day(s) | 10 %       |

## Yeasts

| Name                 | Type | Form   | Amount | Laboratory       |
|----------------------|------|--------|--------|------------------|
| FM52 Amerykański Sen | Ale  | Liquid | 110 ml | Fermentum Mobile |

## Extras

| Type   | Name          | Amount | Use for   | Time     |
|--------|---------------|--------|-----------|----------|
| Flavor | Zest z cytryn | 15 g   | Secondary | 2 day(s) |