

# AIPA pierwsza warka

- Gravity **15.4 BLG**
- ABV **6.5 %**
- IBU **73**
- SRM **9.9**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **18 liter(s)**
- Trub loss **5 %**
- Size with trub loss **20.7 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **24.8 liter(s)**

## Mash information

- Mash efficiency **82 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **19.6 liter(s)**
- Total mash volume **25.2 liter(s)**

## Steps

- Temp **67 C**, Time **90 min**

## Mash step by step

- Heat up **19.6 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **90 min** at **67C**
- Sparge using **10.8 liter(s)** of **76C** water or to achieve **24.8 liter(s)** of wort

## Fermentables

| Type  | Name                 | Amount         | Yield | EBC |
|-------|----------------------|----------------|-------|-----|
| Grain | Viking Pale Ale malt | 4.8 kg (85.7%) | 80 %  | 5   |
| Grain | Strzegom Karmel 150  | 0.4 kg (7.1%)  | 75 %  | 150 |
| Grain | Aroma CastleMalting  | 0.2 kg (3.6%)  | 78 %  | 100 |
| Grain | Płatki owsiane       | 0.2 kg (3.6%)  | 85 %  | 3   |

## Hops

| Use for             | Name       | Amount | Time     | Alpha acid |
|---------------------|------------|--------|----------|------------|
| Boil                | Bravo      | 35 g   | 60 min   | 15.5 %     |
| Boil                | Cascade    | 20 g   | 20 min   | 6 %        |
| Aroma (end of boil) | Citra      | 15 g   | 3 min    | 12 %       |
| Aroma (end of boil) | Lemon drop | 15 g   | 3 min    | 4.6 %      |
| Whirlpool           | Lemon drop | 20 g   | 15 min   | 4.6 %      |
| Whirlpool           | Citra      | 20 g   | 15 min   | 12 %       |
| Dry Hop             | Cascade    | 20 g   | 3 day(s) | 6 %        |
| Dry Hop             | Citra      | 15 g   | 3 day(s) | 12 %       |
| Dry Hop             | mosaic     | 10 g   | 3 day(s) | 11 %       |
| Dry Hop             | Amarillo   | 15 g   | 3 day(s) | 9.5 %      |

## Notes

- 27.12.2020 chmielenie na zimno+cold crash  
*Dec 27, 2020, 4:36 PM*