

# APA BITWA

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- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **38**
- SRM **4.2**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **12 liter(s)**
- Trub loss **5 %**
- Size with trub loss **12.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **15.2 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **9 liter(s)**
- Total mash volume **12 liter(s)**

## Fermentables

| Type  | Name        | Amount       | Yield | EBC |
|-------|-------------|--------------|-------|-----|
| Grain | Pilzneński  | 2.7 kg (90%) | 81 %  | 4   |
| Grain | Monachijski | 0.3 kg (10%) | 80 %  | 16  |

## Hops

| Use for   | Name          | Amount | Time     | Alpha acid |
|-----------|---------------|--------|----------|------------|
| Boil      | Magnum        | 15 g   | 60 min   | 12.7 %     |
| Whirlpool | Amarillo      | 100 g  | 1 min    | 8 %        |
| Dry Hop   | Nelson Sauvín | 50 g   | 2 day(s) | 11 %       |