

# Black NE IPA

- Gravity **15.2 BLG**
- ABV **6.3 %**
- IBU **59**
- SRM **28.9**
- Style **American IPA**

## 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 **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **10.4 liter(s)**
- Total mash volume **13.8 liter(s)**

## Steps

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

## Mash step by step

- Heat up **10.4 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **67C**
- Sparge using **8.3 liter(s)** of **76C** water or to achieve **15.2 liter(s)** of wort

## Fermentables

| Type  | Name                      | Amount         | Yield | EBC |
|-------|---------------------------|----------------|-------|-----|
| Grain | Simpsons - Golden Promise | 2 kg (58%)     | 81 %  | 4   |
| Grain | Płatki owsiane            | 0.6 kg (17.4%) | 85 %  | 3   |
| Grain | Płatki pszeniczne         | 0.5 kg (14.5%) | 85 %  | 3   |
| Grain | Weyermann - Carafa I      | 0.1 kg (2.9%)  | 70 %  | 690 |
| Grain | Jęczmień palony           | 0.25 kg (7.2%) | 55 %  | 985 |

## Hops

| Use for   | Name   | Amount | Time      | Alpha acid |
|-----------|--------|--------|-----------|------------|
| Boil      | Simcoe | 12 g   | 10 min    | 13.2 %     |
| Boil      | Mosaic | 8 g    | 10 min    | 10 %       |
| Boil      | Azacca | 3 g    | 10 min    | 14 %       |
| Whirlpool | Simcoe | 36 g   | 20 min    | 13.2 %     |
| Whirlpool | Mosaic | 24 g   | 20 min    | 10 %       |
| Whirlpool | Azacca | 9 g    | 20 min    | 14 %       |
| Dry Hop   | Mosaic | 27 g   | 12 day(s) | 10 %       |
| Dry Hop   | Azacca | 21 g   | 12 day(s) | 14 %       |
| Dry Hop   | Mosaic | 50 g   | 3 day(s)  | 10 %       |
| Dry Hop   | Azacca | 48 g   | 3 day(s)  | 14 %       |

## Yeasts

| Name                    | Type | Form   | Amount | Laboratory  |
|-------------------------|------|--------|--------|-------------|
| Wyeast - London Ale III | Ale  | Liquid | 125 ml | Wyeast Labs |