

## #70 Orange Belgian Ale

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **52**
- SRM **3.8**
- Style **Belgian IPA**

### Batch size

- Expected quantity of finished beer **19 liter(s)**
- Trub loss **5 %**
- Size with trub loss **20.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **26.2 liter(s)**

### Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **12 liter(s)**
- Total mash volume **16 liter(s)**

### Steps

- Temp **66 C**, Time **60 min**
- Temp **78 C**, Time **0 min**

### Mash step by step

- Heat up **12 liter(s)** of strike water to **74.4C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **0 min** at **78C**
- Sparge using **18.6 liter(s)** of **76C** water or to achieve **26.2 liter(s)** of wort

### Fermentables

| Type  | Name                 | Amount        | Yield | EBC |
|-------|----------------------|---------------|-------|-----|
| Grain | Viking Pale Ale malt | 3 kg (68.2%)  | 80 %  | 5   |
| Grain | Strzegom Pszeniczny  | 1 kg (22.7%)  | 81 %  | 6   |
| Grain | Płatki owsiane       | 0.4 kg (9.1%) | 60 %  | 3   |

### Hops

| Use for | Name     | Amount | Time     | Alpha acid |
|---------|----------|--------|----------|------------|
| Boil    | Amarillo | 30 g   | 60 min   | 9.5 %      |
| Boil    | Amarillo | 50 g   | 10 min   | 9.5 %      |
| Dry Hop | Amarillo | 70 g   | 5 day(s) | 9.5 %      |

### Yeasts

| Name                 | Type | Form   | Amount | Laboratory |
|----------------------|------|--------|--------|------------|
| FM21 Odkrycie sezonu | Ale  | Liquid | 35 ml  | ---        |

### Extras

| Type   | Name                               | Amount | Use for | Time   |
|--------|------------------------------------|--------|---------|--------|
| Flavor | Świeżo wyciśnięty sok pomarańczowy | 200 g  | Boil    | 10 min |

|        |                     |       |           |          |
|--------|---------------------|-------|-----------|----------|
| Flavor | Skórka z pomarańczy | 200 g | Secondary | 7 day(s) |
|--------|---------------------|-------|-----------|----------|