

# Imperial wit

- Gravity **17.3 BLG**
- ABV **7.4 %**
- IBU **33**
- SRM **4.4**
- Style **Witbier**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **21.9 liter(s)**
- Total mash volume **29.2 liter(s)**

## Steps

- Temp **63 C**, Time **60 min**
- Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **21.9 liter(s)** of strike water to **70.2C**
- Add grains
- Keep mash **60 min** at **63C**
- Keep mash **30 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **10.7 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

## Fermentables

| Type  | Name                  | Amount        | Yield | EBC |
|-------|-----------------------|---------------|-------|-----|
| Grain | Pilzneński            | 1 kg (13.7%)  | 81 %  | 4   |
| Grain | Viking Pale Ale malt  | 1 kg (13.7%)  | 80 %  | 5   |
| Grain | Pszenica niesłodowana | 5 kg (68.5%)  | 75 %  | 3   |
| Grain | Weyermann - Carapils  | 0.3 kg (4.1%) | 78 %  | 4   |

## Hops

| Use for             | Name     | Amount | Time     | Alpha acid |
|---------------------|----------|--------|----------|------------|
| Boil                | X13459   | 20 g   | 60 min   | 6.4 %      |
| Boil                | Motueka  | 20 g   | 60 min   | 7 %        |
| Aroma (end of boil) | AtHanum  | 20 g   | 15 min   | 4.8 %      |
| Aroma (end of boil) | X13459   | 30 g   | 5 min    | 6.4 %      |
| Dry Hop             | Ath anum | 30 g   | 3 day(s) | 4.8 %      |
| Whirlpool           | Motueka  | 30 g   | 1 min    | 7 %        |
| Dry Hop             | Motueka  | 50 g   | 5 day(s) | 7 %        |
| Dry Hop             | X13459   | 50 g   | 5 day(s) | 6.4 %      |

## Yeasts

| Name                  | Type  | Form  | Amount | Laboratory |
|-----------------------|-------|-------|--------|------------|
| Gozdawa fruit blanche | Wheat | Slant | 200 ml | ---        |

## Extras

| Type  | Name     | Amount | Use for | Time  |
|-------|----------|--------|---------|-------|
| Spice | Curacao  | 30 g   | Boil    | 5 min |
| Spice | Kolendra | 30 g   | Boil    | 5 min |
| Spice | Rumianek | 3.5 g  | Boil    | 5 min |