

Imperial Witbier

- Gravity **17.1 BLG**
- ABV **7.3 %**
- IBU **38**
- SRM **4.4**
- Style **Witbier**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.25 liter(s) / kg**
- Mash size **26 liter(s)**
- Total mash volume **34 liter(s)**

Steps

- Temp **35 C**, Time **15 min**
- Temp **45 C**, Time **15 min**
- Temp **62 C**, Time **45 min**
- Temp **72 C**, Time **15 min**

Mash step by step

- Heat up **26 liter(s)** of strike water to **37.3C**
- Add grains
- Keep mash **15 min** at **35C**
- Keep mash **15 min** at **45C**
- Keep mash **45 min** at **62C**
- Keep mash **15 min** at **72C**
- Sparge using **13.7 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|---------------|--------------|-------|-----|
| Grain | Wheat, Flaked | 2 kg (25%) | 77 % | 4 |
| Grain | Pilzneński | 3 kg (37.5%) | 81 % | 4 |
| Grain | Pszeniczny | 3 kg (37.5%) | 85 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|---------------|--------|--------|------------|
| Boil | Yellow Sub | 30 g | 30 min | 6 % |
| Boil | Pacifica (NZ) | 60 g | 20 min | 4.8 % |
| Boil | Cascade | 30 g | 10 min | 6 % |
| Boil | Equinox | 30 g | 10 min | 13.1 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
| s-33 | Ale | Dry | 11 g | Safale |

Extras

| Type | Name | Amount | Use for | Time |
|--------|----------------------------|--------|-----------|----------|
| Fining | mech irlandzki | 6 g | Boil | 15 min |
| Spice | skórka słodkiej pomarańczy | 30 g | Boil | 15 min |
| Spice | curacao | 30 g | Boil | 15 min |
| Spice | kolendra | 40 g | Boil | 15 min |
| Spice | skórka słodkiej pomarańczy | 10 g | Secondary | 7 day(s) |
| Spice | curacao | 10 g | Secondary | 7 day(s) |
| Spice | kolendra | 20 g | Secondary | 7 day(s) |