

# witek

- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **20**
- SRM **3.3**
- Style **Witbier**

## Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.8 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **9.8 liter(s)**
- Total mash volume **12.6 liter(s)**

## Steps

- Temp **66 C**, Time **60 min**
- Temp **72 C**, Time **15 min**

## Mash step by step

- Heat up **9.8 liter(s)** of strike water to **72.6C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **15 min** at **72C**
- Sparge using **20.8 liter(s)** of **76C** water or to achieve **27.8 liter(s)** of wort

## Fermentables

| Type    | Name                  | Amount         | Yield | EBC |
|---------|-----------------------|----------------|-------|-----|
| Grain   | Pilzneński            | 2.3 kg (45.1%) | 81 %  | 4   |
| Adjunct | Pszenica niesłodowana | 2 kg (39.2%)   | 75 %  | 3   |
| Grain   | Wheat, Flaked         | 0.35 kg (6.9%) | 77 %  | 4   |
| Adjunct | Rice Hulls            | 0.3 kg (5.9%)  | 1 %   | 0   |
| Grain   | Monachijski           | 0.15 kg (2.9%) | 80 %  | 16  |

## Hops

| Use for | Name                  | Amount | Time   | Alpha acid |
|---------|-----------------------|--------|--------|------------|
| Boil    | lunga                 | 5 g    | 60 min | 8.5 %      |
| Boil    | Saaz (Czech Republic) | 19.2 g | 60 min | 4 %        |
| Boil    | Hersbrucker           | 20 g   | 60 min | 4.3 %      |

## Yeasts

| Name               | Type  | Form   | Amount  | Laboratory       |
|--------------------|-------|--------|---------|------------------|
| FM20 Białe Walonki | Wheat | Liquid | 1000 ml | Fermentum Mobile |

## Extras

| Type  | Name                      | Amount | Use for | Time  |
|-------|---------------------------|--------|---------|-------|
| Spice | skórka suszonych cytrusów | 20 g   | Boil    | 5 min |
| Spice | kolendra indyjska         | 11 g   | Boil    | 5 min |