

# Witbier - Pierwsza Stopa

- Gravity **11.7 BLG**
- ABV ---
- IBU **8**
- SRM **3.6**
- Style **Witbier**

## Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **12 %**
- Size with trub loss **28 liter(s)**
- Boil time **60 min**
- Evaporation rate **5 %/h**
- Boil size **29.4 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **18.2 liter(s)**
- Total mash volume **23.4 liter(s)**

## Steps

- Temp **51 C**, Time **25 min**
- Temp **62 C**, Time **45 min**
- Temp **72 C**, Time **25 min**

## Mash step by step

- Heat up **18.2 liter(s)** of strike water to **55.4C**
- Add grains
- Keep mash **25 min** at **51C**
- Keep mash **45 min** at **62C**
- Keep mash **25 min** at **72C**
- Sparge using **16.4 liter(s)** of **76C** water or to achieve **29.4 liter(s)** of wort

## Fermentables

| Type  | Name             | Amount         | Yield | EBC |
|-------|------------------|----------------|-------|-----|
| Grain | Pszeniczny       | 2 kg (38.5%)   | 85 %  | 4   |
| Grain | Pale Ale         | 2.2 kg (42.3%) | 80 %  | 4   |
| Grain | Wheat, Torrified | 0.4 kg (7.7%)  | 79 %  | 4   |
| Grain | Oats, Flaked     | 0.6 kg (11.5%) | 80 %  | 2   |

## Hops

| Use for | Name              | Amount | Time   | Alpha acid |
|---------|-------------------|--------|--------|------------|
| Boil    | Lublin (Lubelski) | 20 g   | 60 min | 4 %        |
| Boil    | Lublin (Lubelski) | 10 g   | 5 min  | 4 %        |

## Yeasts

| Name         | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safbrew S-33 | Ale  | Dry  | 11.5 g | Safbrew    |

## Extras

| Type | Name     | Amount | Use for | Time  |
|------|----------|--------|---------|-------|
| Herb | Kolendra | 5 g    | Boil    | 5 min |

|       |                   |      |      |       |
|-------|-------------------|------|------|-------|
| Spice | Skórka Pomarańczy | 45 g | Boil | 5 min |
| Spice | Skórka Cytryny    | 5 g  | Boil | 5 min |