

# American Witbier

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **21**
- SRM **3.4**
- Style **Witbier**

## Batch size

- Expected quantity of finished beer **26 liter(s)**
- Trub loss **5 %**
- Size with trub loss **27.3 liter(s)**
- Boil time **80 min**
- Evaporation rate **10 %/h**
- Boil size **33.9 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **4.5 liter(s) / kg**
- Mash size **27 liter(s)**
- Total mash volume **33 liter(s)**

## Steps

- Temp **65 C**, Time **75 min**
- Temp **76 C**, Time **10 min**

## Mash step by step

- Heat up **27 liter(s)** of strike water to **70C**
- Add grains
- Keep mash **75 min** at **65C**
- Keep mash **10 min** at **76C**
- Sparge using **12.9 liter(s)** of **76C** water or to achieve **33.9 liter(s)** of wort

## Fermentables

| Type  | Name                  | Amount       | Yield | EBC |
|-------|-----------------------|--------------|-------|-----|
| Grain | Pszeniczny            | 2 kg (33.3%) | 85 %  | 4   |
| Grain | Strzegom Pilzneński   | 2 kg (33.3%) | 80 %  | 4   |
| Grain | Pszenica niesłodowana | 1 kg (16.7%) | 75 %  | 3   |
| Grain | Wheat, Flaked         | 1 kg (16.7%) | 77 %  | 4   |

## Hops

| Use for             | Name        | Amount | Time   | Alpha acid |
|---------------------|-------------|--------|--------|------------|
| First Wort          | El Dorado   | 17 g   | 80 min | 13.7 %     |
| Aroma (end of boil) | Mosaic      | 25 g   | 0 min  | 11.8 %     |
| Aroma (end of boil) | Cascade     | 25 g   | 0 min  | 7.1 %      |
| Aroma (end of boil) | El Dorado   | 25 g   | 0 min  | 13.7 %     |
| Aroma (end of boil) | Sorachi Ace | 25 g   | 0 min  | 12.8 %     |

## Yeasts

| Name               | Type  | Form   | Amount | Laboratory       |
|--------------------|-------|--------|--------|------------------|
| FM20 Białe Walonki | Wheat | Liquid | 150 ml | Fermentum Mobile |

## Extras

| Type  | Name               | Amount | Use for | Time  |
|-------|--------------------|--------|---------|-------|
| Spice | Coriander Seeds    | 5 g    | Boil    | 5 min |
| Spice | Chamomile          | 3 g    | Boil    | 5 min |
| Herb  | Lemon grass        | 5 g    | Boil    | 5 min |
| Spice | sweet orange peels | 25 g   | Boil    | 5 min |

## Notes

- 100% wody RO, profil zbliżony do Hoegaarden (Ca 60, Mg 3, Na 18, SO 85, Cl 55).  
*Jun 28, 2017, 9:36 AM*