

Zimowy Koziół

- Gravity **17.5 BLG**
- ABV **7.5 %**
- IBU **24**
- SRM **17.7**
- Style **Weizenbock**

Batch size

- Expected quantity of finished beer **18 liter(s)**
- Trub loss **5 %**
- Size with trub loss **18.9 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **23.1 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3.3 liter(s) / kg**
- Mash size **22.1 liter(s)**
- Total mash volume **28.8 liter(s)**

Steps

- Temp **42 C**, Time **15 min**
- Temp **63 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up **22.1 liter(s)** of strike water to **45.3C**
- Add grains
- Keep mash **15 min** at **42C**
- Keep mash **40 min** at **63C**
- Keep mash **20 min** at **72C**
- Keep mash **5 min** at **76C**
- Sparge using **7.7 liter(s)** of **76C** water or to achieve **23.1 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------|----------------|-------|-----|
| Grain | Pszeniczny | 3.5 kg (52.2%) | 85 % | 4 |
| Grain | Pilzneński | 1.4 kg (20.9%) | 80 % | 4 |
| Grain | Monachijski | 1.2 kg (17.9%) | 80 % | 16 |
| Grain | Strzegom Karmel 150 | 0.2 kg (3%) | 75 % | 100 |
| Grain | Strzegom Czekoladowy jasny | 0.2 kg (3%) | 68 % | 400 |
| Grain | Melanoiden Malt | 0.1 kg (1.5%) | 80 % | 39 |
| Grain | Weyermann - Carafa I | 0.1 kg (1.5%) | 70 % | 900 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|-----------|--------|--------|------------|
| Boil | Marynka | 20 g | 60 min | 9.2 % |
| Boil | Tradition | 15 g | 25 min | 5.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------------------------|-------|-------|--------|------------------|
| FM41 Gwoździe i Banany | Wheat | Slant | 200 ml | Fermentum Mobile |

Notes

- Finalnie uzyskałem 20L +1l chmieliny o wartości 18.2blg, słód Czekoladowy wrzucony na 72C, Carafa na ostatnią przerwę 5', wcześniej moczony w wodzie do wysładzania. Chłodzenie do 19 stopni, temp otoczenia 17C
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