

Marcowe 2022_04

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **13**
- SRM **8.7**
- Style **Oktoberfest/Märzen**

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 **81 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **20.5 liter(s)**
- Total mash volume **26.3 liter(s)**

Steps

- Temp **62 C**, Time **30 min**
- Temp **67 C**, Time **45 min**
- Temp **78 C**, Time **15 min**

Mash step by step

- Heat up **20.5 liter(s)** of strike water to **68C**
- Add grains
- Keep mash **30 min** at **62C**
- Keep mash **45 min** at **67C**
- Keep mash **15 min** at **78C**
- Sparge using **17.1 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------|----------------|-------|-----|
| Grain | Strzegom Wiedeński | 2.5 kg (42.7%) | 79 % | 10 |
| Grain | Strzegom Monachijski typ I | 3.1 kg (53%) | 79 % | 16 |
| Grain | Strzegom Karmel 150 | 0.25 kg (4.3%) | 75 % | 150 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|-------------|--------|--------|------------|
| Boil | Hersbrucker | 50 g | 60 min | 3 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|---------------|-------|-------|--------|------------|
| Lutra OYL-071 | Lager | Slant | 100 ml | --- |