

Marcowe II

- Gravity **14.3 BLG**
- ABV **5.9 %**
- IBU **28**
- SRM **7.2**
- Style **Oktoberfest/Märzen**

Batch size

- Expected quantity of finished beer **12 liter(s)**
- Trub loss **5 %**
- Size with trub loss **12.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **15.9 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **9.6 liter(s)**
- Total mash volume **12.8 liter(s)**

Steps

- Temp **67 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **9.6 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **10 min** at **78C**
- Sparge using **9.5 liter(s)** of **76C** water or to achieve **15.9 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	2 kg (62.5%)	81 %	4
Grain	Strzegom Monachijski typ I	0.8 kg (25%)	79 %	16
Grain	Strzegom Wiedeński	0.3 kg (9.4%)	79 %	10
Grain	Strzegom Karmel 150	0.1 kg (3.1%)	75 %	150

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	16 g	60 min	7.8 %
Boil	Lublin (Lubelski)	15 g	20 min	4 %

Yeasts

Name	Type	Form	Amount	Laboratory
Saflager S-23	Lager	Dry	11 g	Fermentis Division of S.I.Lesaffre