MARCOWE

- Gravity 15 BLG
- ABV ---
- IBU 23
- SRM 11.3
- Style Oktoberfest/Märzen

Batch size

- Expected quantity of finished beer 35 liter(s)
- Trub loss 5 %
- Size with trub loss 36.8 liter(s)
- · Boil time 90 min
- Evaporation rate 10 %/h
- Boil size 46.3 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 30.8 liter(s)
- Total mash volume 41 liter(s)

Steps

- Temp **52** C, Time **10** min Temp **62** C, Time **30** min Temp **72** C, Time **30** min
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up 30.8 liter(s) of strike water to 57.3C
- Add grains
- Keep mash 10 min at 52C
- Keep mash 30 min at 62C
- Keep mash 30 min at 72C
- Keep mash 10 min at 78C
- Sparge using 25.8 liter(s) of 76C water or to achieve 46.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Briess - Pilsen Malt	5 kg <i>(47.6%)</i>	80.5 %	2
Grain	Strzegom Wiedeński	2.8 kg <i>(26.7%)</i>	79 %	10
Grain	Monachijski	1.9 kg <i>(18.1%)</i>	80 %	16
Grain	cristal	0.25 kg <i>(2.4%)</i>	75 %	160
Adjunct	płatki żynie	0.25 kg <i>(2.4%)</i>	80 %	5
Grain	Caraaroma	0.3 kg (2.9%)	78 %	400

Hops

Use for	Name	Amount	Time	Alpha acid
First Wort	Marynka	20 g	90 min	10 %
Boil	Marynka	25 g	15 min	10 %
Boil	Lublin (Lubelski)	25 g	10 min	4 %

Yeasts

Name	Tyne	Form	Amount	Laboratory
Name	Туре	1 01 111	Aillouit	Laboratory

Wyeast - Bavarian	Lager	Liquid	100 ml	Wyeast Labs
Lager				

Extras

Туре	Name	Amount	Use for	Time
Fining	mech irlandzki	10 g	Boil	10 min