

# milk stout

- Gravity **14 BLG**
- ABV **5.8 %**
- IBU **25**
- SRM **35.5**
- Style **Sweet Stout**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **25.7 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.8 liter(s)**
- Total mash volume **22.4 liter(s)**

## Steps

- Temp **62 C**, Time **30 min**
- Temp **72 C**, Time **40 min**
- Temp **76 C**, Time **5 min**

## Mash step by step

- Heat up **16.8 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **30 min** at **62C**
- Keep mash **40 min** at **72C**
- Keep mash **5 min** at **76C**
- Sparge using **14.5 liter(s)** of **76C** water or to achieve **25.7 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	3 kg (53.6%)	85 %	7
Grain	Strzegom Monachijski typ I	1 kg (17.9%)	79 %	16
Grain	Strzegom Monachijski typ II	0.5 kg (8.9%)	79 %	22
Grain	Weyermann - Carafa II	0.3 kg (5.4%)	70 %	1150
Grain	Jęczmień palony	0.3 kg (5.4%)	55 %	1150
Grain	Płatki owsiane	0.5 kg (8.9%)	85 %	3

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	30 g	60 min	7.1 %
Boil	Lublin (Lubelski)	15 g	10 min	4.6 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	---

## Extras

Type	Name	Amount	Use for	Time
Flavor	laktoza	500 g	Boil	15 min