

# Milk Stout

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- Gravity **15 BLG**
- ABV **6.2 %**
- IBU **30**
- SRM **22.9**
- 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 **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **17.7 liter(s)**
- Total mash volume **22.7 liter(s)**

## Steps

- Temp **68 C**, Time **60 min**
- Temp **77 C**, Time **5 min**

## Mash step by step

- Heat up **17.7 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **5 min** at **77C**
- Sparge using **12.7 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4.5 kg (81.1%)	80 %	5
Grain	Carafa II	0.2 kg (3.6%)	70 %	812
Grain	Karmelowy Jasny 30EBC	0.2 kg (3.6%)	75 %	30
Grain	Strzegom Barwiący	0.15 kg (2.7%)	68 %	1300
Sugar	Milk Sugar (Lactose)	0.5 kg (9%)	76.1 %	0

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	30 g	60 min	10 %

## Yeasts

Name	Type	Form	Amount	Laboratory
S04	Ale	Dry	11 g	---