

# Milk Stout

- Gravity **16.6 BLG**
- ABV **7 %**
- IBU **19**
- SRM **23.1**
- Style **American Stout**

## Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **7 %/h**
- Boil size **25.1 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.6 liter(s) / kg**
- Mash size **25.2 liter(s)**
- Total mash volume **32.2 liter(s)**

## Steps

- Temp **67 C**, Time **70 min**
- Temp **76 C**, Time **10 min**

## Mash step by step

- Heat up **25.2 liter(s)** of strike water to **73.5C**
- Add grains
- Keep mash **70 min** at **67C**
- Keep mash **10 min** at **76C**
- Sparge using **6.9 liter(s)** of **76C** water or to achieve **25.1 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5 kg (71.4%)	80 %	5
Grain	Strzegom Pilzneński	1 kg (14.3%)	80 %	4
Grain	Carafa II	0.3 kg (4.3%)	70 %	1100
Grain	Płatki owsiane	0.4 kg (5.7%)	60 %	3
Grain	Słód Caramunich Typ II Weyermann	0.3 kg (4.3%)	73 %	120

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Challenger	30 g	60 min	7 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11 g	Fermentis

## Extras

Type	Name	Amount	Use for	Time
Other	Laktoza	0.25 g	Boil	15 min