

# Milk Stout

- Gravity **14.5 BLG**
- ABV **6 %**
- IBU **37**
- SRM **36.1**
- Style **Sweet 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 **10 %/h**
- Boil size **26.5 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18.5 liter(s)**
- Total mash volume **24.6 liter(s)**

## Steps

- Temp **65 C**, Time **60 min**

## Mash step by step

- Heat up **18.5 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **60 min** at **65C**
- Sparge using **14.2 liter(s)** of **76C** water or to achieve **26.5 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	3 kg (48.8%)	80 %	4
Grain	Monachijski typ II 20-25 EBC Weyermann	1 kg (16.3%)	80 %	20
Grain	Weyermann - Carawheat	0.7 kg (11.4%)	77 %	115
Grain	Płatki owsiane	0.5 kg (8.1%)	85 %	3
Grain	Fawcett - Pszeniczny Czekoladowy	0.4 kg (6.5%)	73 %	820
Grain	Weyermann - Carapils	0.3 kg (4.9%)	78 %	4
Grain	Weyermann - Carafa III - special	0.25 kg (4.1%)	70 %	1400

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Challenger	25 g	60 min	7 %
Boil	Magnat	15 g	60 min	14 %

## Yeasts

Name	Type	Form	Amount	Laboratory
------	------	------	--------	------------

FM13 Irlandzkie Ciemności	Ale	Liquid	100 ml	Fermentum Mobile
---------------------------	-----	--------	--------	------------------

### Extras

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