

# Milk Stout z piwopiweczko

- Gravity **11.2 BLG**
- ABV **4.5 %**
- IBU **35**
- SRM **25.1**
- Style **American 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 **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **13.8 liter(s)**
- Total mash volume **18.4 liter(s)**

## Steps

- Temp **60 C**, Time **5 min**
- Temp **67 C**, Time **60 min**
- Temp **76 C**, Time **10 min**

## Mash step by step

- Heat up **13.8 liter(s)** of strike water to **66.7C**
- Add grains
- Keep mash **5 min** at **60C**
- Keep mash **60 min** at **67C**
- Keep mash **10 min** at **76C**
- Sparge using **16.1 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	3.5 kg (76.1%)	80 %	5
Grain	Pilznieński	0.5 kg (10.9%)	81 %	4
Grain	Słód Caramunich Typ II Weyermann	0.2 kg (4.3%)	73 %	120
Grain	Jęczmień palony	0.3 kg (6.5%)	55 %	985
Grain	Carafa III	0.1 kg (2.2%)	70 %	1034

## Hops

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

## Yeasts

Name	Type	Form	Amount	Laboratory
Gozdawa Pure Ale Yeast 7	Ale	Dry	11.5 g	---

## Extras

Type	Name	Amount	Use for	Time
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Flavor	Laktoza	250 g	Boil	15 min
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