

## Milk Stout II

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- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **37**
- SRM **42.9**
- Style **Sweet Stout**

### Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **5 %**
- Size with trub loss **10.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **12.7 liter(s)**

### Mash information

- Mash efficiency **77 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **9.1 liter(s)**
- Total mash volume **11.7 liter(s)**

### Steps

- Temp **67 C**, Time **60 min**
- Temp **78 C**, Time **0 min**

### Mash step by step

- Heat up **9.1 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **0 min** at **78C**
- Sparge using **6.2 liter(s)** of **76C** water or to achieve **12.7 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale	1.4 kg (53.8%)	80 %	6
Grain	Weyermann - Monachijski II	0.5 kg (19.2%)	80 %	28
Grain	Płatki owsiane błyskawiczne	0.3 kg (11.5%)	75 %	3
Grain	Fawcett - Chocolate	0.2 kg (7.7%)	30 %	1175
Grain	Weyermann - Jęczmień palony	0.2 kg (7.7%)	30 %	1150

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	PL lunga	10 g	60 min	12.5 %
Boil	PL lunga	15 g	5 min	12.5 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	Safale

### Extras

Type	Name	Amount	Use for	Time
Other	Laktoza	200 g	Boil	5 min