

## 2# Sweet Stout

- Gravity **11.2 BLG**
- ABV **4.5 %**
- IBU **23**
- SRM **25.8**
- Style **Sweet Stout**

### Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **32.2 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **2.6 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20.7 liter(s)**

### Steps

- Temp **67 C**, Time **70 min**
- Temp **78 C**, Time **5 min**

### Mash step by step

- Heat up **15 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **70 min** at **67C**
- Keep mash **5 min** at **78C**
- Sparge using **23 liter(s)** of **76C** water or to achieve **32.2 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4.6 kg (80%)	80 %	5
Grain	Strzegom Karmel 150	0.5 kg (8.7%)	70 %	299
Grain	Strzegom Czekoladowy jasny	0.4 kg (7%)	68 %	400
Grain	Jęczmień palony	0.25 kg (4.3%)	55 %	985

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Northdown	31 g	60 min	8.2 %

### Yeasts

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

### Extras

Type	Name	Amount	Use for	Time
Flavor	laktoza	625 g	Boil	15 min

### Notes

- - słody ciemne na 10 minut zacierania
- fermentacja 3 tygodnie
- refermentacja 80g
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