

## Simple stout

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- Gravity **11.2 BLG**
- ABV **4.5 %**
- IBU **33**
- SRM **29.9**
- Style **Dry Stout**

### Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

### Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **23.2 liter(s)**

### Steps

- Temp **68 C**, Time **60 min**
- Temp **78 C**, Time **5 min**

### Mash step by step

- Heat up **18 liter(s)** of strike water to **74.9C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **5 min** at **78C**
- Sparge using **18.9 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	4 kg (77.7%)	85 %	7
Grain	Jęczmień palony	0.6 kg (11.7%)	55 %	985
Grain	Caraaroma	0.25 kg (4.9%)	78 %	400
Grain	Oats, Flaked	0.3 kg (5.8%)	80 %	2

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	East Kent Goldings	70 g	60 min	5.1 %

### Yeasts

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