

Dry Stout

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **23**
- SRM **31.6**
- Style **Dry Stout**

Batch size

- Expected quantity of finished beer **12 liter(s)**
- Trub loss **5 %**
- Size with trub loss **12.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **15.2 liter(s)**

Mash information

- Mash efficiency **50 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **14.7 liter(s)**
- Total mash volume **18.9 liter(s)**

Steps

- Temp **67 C**, Time **80 min**
- Temp **72 C**, Time **10 min**

Mash step by step

- Heat up **14.7 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **80 min** at **67C**
- Keep mash **10 min** at **72C**
- Sparge using **4.7 liter(s)** of **76C** water or to achieve **15.2 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	3 kg (71.4%)	85 %	7
Grain	Briess - Munich Malt 10L	0.8 kg (19%)	77 %	20
Grain	Black Barley (Roast Barley)	0.2 kg (4.8%)	55 %	985
Grain	Briess - Chocolate Malt	0.2 kg (4.8%)	60 %	690

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	East Kent Goldings	20 g	60 min	5.1 %
Boil	East Kent Goldings	10 g	10 min	5.1 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	10 g	Fermentis