

Guinness

- Gravity **10.5 BLG**
- ABV **4.2 %**
- IBU **32**
- SRM **21.5**
- Style **Dry Stout**

Batch size

- Expected quantity of finished beer **60 liter(s)**
- Trub loss **0 %**
- Size with trub loss **60 liter(s)**
- Boil time **60 min**
- Evaporation rate **7 %/h**
- Boil size **68.7 liter(s)**

Mash information

- Mash efficiency **77 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **33.6 liter(s)**
- Total mash volume **44.8 liter(s)**

Steps

- Temp **66 C**, Time **60 min**
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up **33.6 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **5 min** at **76C**
- Sparge using **46.3 liter(s)** of **76C** water or to achieve **68.7 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	10 kg (89.3%)	82 %	4
Grain	Weyermann - Chocolate Wheat	1.2 kg (10.7%)	74 %	788

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	iunga	60 g	60 min	12.4 %