

Dry Stout

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **46**
- SRM **30.9**
- 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 **18 %/h**
- Boil size **34 liter(s)**

Mash information

- Mash efficiency **78 %**
- Liquor-to-grist ratio **3.35 liter(s) / kg**
- Mash size **21.1 liter(s)**
- Total mash volume **27.4 liter(s)**

Steps

- Temp **70 C**, Time **70 min**
- Temp **70 C**, Time **10 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **21.1 liter(s)** of strike water to **77.5C**
- Add grains
- Keep mash **10 min** at **70C**
- Keep mash **70 min** at **70C**
- Keep mash **5 min** at **78C**
- Sparge using **19.2 liter(s)** of **76C** water or to achieve **34 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5 kg (79.4%)	80 %	5
Grain	Płatki jęczmienne	0.5 kg (7.9%)	85 %	3
Grain	Czekoladowy	0.3 kg (4.8%)	60 %	788
70 st 10 min				
Grain	Jęczmień palony	0.5 kg (7.9%)	55 %	985
70 st 10 min				

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Target	50 g	60 min	10.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	15.97 g	Safale