

Dry Stout

- Gravity **10.2 BLG**
- ABV **4.1 %**
- IBU **41**
- SRM **26.2**
- Style **Dry Stout**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.5 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **22.5 liter(s)**

Steps

- Temp **67 C**, Time **60 min**
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up **18 liter(s)** of strike water to **72.9C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **5 min** at **76C**
- Sparge using **14 liter(s)** of **76C** water or to achieve **27.5 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3.5 kg (77.8%)	80 %	5
Grain	Carafa typ I	0.2 kg (4.4%)	70 %	1000
Grain	Jęczmień palony	0.3 kg (6.7%)	55 %	985
Grain	Płatki jęczmienne	0.5 kg (11.1%)	85 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Challenger	30 g	50 min	7.4 %
Boil	Challenger	30 g	10 min	7.4 %
Boil	Flyer	30 g	10 min	7.1 %

Yeasts

Name	Type	Form	Amount	Laboratory
FM13 Irlandzkie Ciemności	Ale	Liquid	20 ml	Fermentum Mobile