

Ryed Irish Stout

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **34**
- SRM **29.3**
- Style **Dry Stout**

Batch size

- Expected quantity of finished beer **19 liter(s)**
- Trub loss --- %
- Size with trub loss **19 liter(s)**
- Boil time **60 min**
- Evaporation rate **20 %/h**
- Boil size **22.8 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **12.8 liter(s)**
- Total mash volume **17 liter(s)**

Steps

- Temp **66 C**, Time **70 min**

Mash step by step

- Heat up **12.8 liter(s)** of strike water to **73.6C**
- Add grains
- Keep mash **70 min** at **66C**
- Sparge using **14.3 liter(s)** of **76C** water or to achieve **22.8 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3 kg (70.6%)	80 %	5
Grain	Płatki owsiane	0.8 kg (18.8%)	60 %	3
Grain	Jęczmień palony	0.45 kg (10.6%)	55 %	985

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	35 g	60 min	7.1 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11 g	Fermentis