

gravedigger

- Gravity **23.6 BLG**
- ABV **10.8 %**
- IBU **103**
- SRM **43**
- Style **Russian Imperial Stout**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **120 min**
- Evaporation rate **15 %/h**
- Boil size **29.9 liter(s)**

Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **26.4 liter(s)**
- Total mash volume **35.2 liter(s)**

Steps

- Temp **68 C**, Time **90 min**
- Temp **10 C**, Time **78 min**

Mash step by step

- Heat up **26.4 liter(s)** of strike water to **8.3C**
- Add grains
- Keep mash **78 min** at **10C**
- Keep mash **90 min** at **68C**
- Sparge using **12.3 liter(s)** of **76C** water or to achieve **29.9 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5 kg (56.8%)	80 %	5
Grain	Strzegom Monachijski typ II	2.8 kg (31.8%)	79 %	22
Grain	Carafa III specjal	0.3 kg (3.4%)	70 %	1034
Grain	Zytmi czekoladowy weyerman	0.3 kg (3.4%)	70 %	600
Grain	Pszeniczny Czekoladowy weyerman	0.3 kg (3.4%)	73 %	1001
Grain	Jęczmień palony	0.1 kg (1.1%)	55 %	985

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Warrior	70 g	60 min	15.5 %
Boil	Warrior	30 g	30 min	15.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Slant	200 ml	Fermentis