

## BA Stout Owsiany 13°

- Gravity **11.2 BLG**
- ABV **4.5 %**
- IBU **14**
- SRM **26.4**
- Style **Oatmeal Stout**

### Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **65 min**
- Evaporation rate **15 %/h**
- Boil size **25.6 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **15.8 liter(s)**
- Total mash volume **20.3 liter(s)**

### Steps

- Temp **67 C**, Time **60 min**
- Temp **76 C**, Time **10 min**

### Mash step by step

- Heat up **15.8 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **10 min** at **76C**
- Sparge using **14.3 liter(s)** of **76C** water or to achieve **25.6 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3.2 kg (71.1%)	80 %	6
Grain	Platki owsiane	0.5 kg (11.1%)	60 %	3
Grain	Caraaroma	0.3 kg (6.7%)	78 %	400
Grain	Weyermann - Carafa I	0.2 kg (4.4%)	70 %	690
Grain	Roasted Barley	0.3 kg (6.7%)	55 %	591

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	East Kent Goldings	15 g	60 min	5.1 %
Aroma (end of boil)	East Kent Goldings	15 g	15 min	5.1 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	Fermentis

### Extras

Type	Name	Amount	Use for	Time
Other	Glukoza	130 g	Bottling	---