

## #15 Oatmeal chocolate stout

- Gravity **15.5 BLG**
- ABV ---
- IBU **45**
- SRM **40**
- Style **Oatmeal Stout**

### Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.8 liter(s)**

### Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **21.3 liter(s)**
- Total mash volume **27.4 liter(s)**

### Steps

- Temp **67 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

### Mash step by step

- Heat up **21.3 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **10 min** at **78C**
- Sparge using **12.6 liter(s)** of **76C** water or to achieve **27.8 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	2 kg (32.8%)	80 %	4
Grain	Strzegom Pale Ale	2 kg (32.8%)	79 %	6
Grain	Strzegom Czekoladowy 1200	0.6 kg (9.8%)	68 %	1202
Grain	Strzegom Karmel 300	0.5 kg (8.2%)	70 %	299
Grain	Strzegom Barwiący	0.1 kg (1.6%)	68 %	1300
Grain	Oats, Flaked	0.8 kg (13.1%)	80 %	2
Grain	Strzegom Czekoladowy jasny	0.1 kg (1.6%)	68 %	400

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	45 g	70 min	10 %

### Yeasts

Name	Type	Form	Amount	Laboratory
s 04	Ale	Dry	12 g	---

### Extras

Type	Name	Amount	Use for	Time
Flavor	kakao	100 g	Boil	30 min