

## Dry stout

- Gravity **13.6 BLG**
- ABV **5.6 %**
- IBU **30**
- SRM **27.9**
- Style **Dry 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 **83 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.5 liter(s)**
- Total mash volume **22 liter(s)**

### Steps

- Temp **64 C**, Time **30 min**
- Temp **72 C**, Time **35 min**
- Temp **78 C**, Time **10 min**

### Mash step by step

- Heat up **16.5 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **30 min** at **64C**
- Keep mash **35 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **16.8 liter(s)** of **76C** water or to achieve **27.8 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	3 kg (54.5%)	79 %	6
Grain	Strzegom Monachijski typ I	1 kg (18.2%)	79 %	16
Grain	Jęczmień palony	0.3 kg (5.5%)	55 %	985
Grain	Strzegom Czekoladowy ciemny	0.2 kg (3.6%)	68 %	1200
Grain	Płatki pszeniczne	0.5 kg (9.1%)	85 %	3
Grain	płatki jęczmienne szybkie	0.5 kg (9.1%)	--- %	---

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	31 g	60 min	10 %

### Yeasts

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