

# Stout

- Gravity **13.8 BLG**
- ABV ---
- IBU **46**
- SRM **70.5**
- Style **Dry Stout**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20 liter(s)**

## Steps

- Temp **65 C**, Time **45 min**
- Temp **72 C**, Time **15 min**

## Mash step by step

- Heat up **15 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **45 min** at **65C**
- Keep mash **15 min** at **72C**
- Sparge using **15.3 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2 kg (40%)	80 %	5
Grain	Strzegom Monachijski typ II	1 kg (20%)	79 %	22
Grain	Jęczmień palony	0.25 kg (5%)	55 %	985
Grain	Carafa III	0.25 kg (5%)	70 %	1034
Grain	płatki jęczmienne	0.5 kg (10%)	70 %	4
Grain	Strzegom Czekoladowy 1200	0.5 kg (10%)	68 %	1202
Grain	Weyermann - Carapils	0.5 kg (10%)	78 %	4

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Challenger	50 g	60 min	5.8 %
Boil	Cascade	20 g	30 min	6.8 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	Fermentis

## Extras

Type	Name	Amount	Use for	Time
Flavor	płatki dębowe bouron Jim Beam	50 g	Secondary	10 day(s)