

# Dry Stout

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- Gravity **10.2 BLG**
- ABV **4.1 %**
- IBU **24**
- SRM **15.6**
- Style **Dry Stout**

## Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.5 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **12.7 liter(s)**
- Total mash volume **17 liter(s)**

## Steps

- Temp **65 C**, Time **70 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **5 min**

## Mash step by step

- Heat up **12.7 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **70 min** at **65C**
- Keep mash **20 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **18.1 liter(s)** of **76C** water or to achieve **26.5 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4 kg (94.1%)	80 %	5
Grain	Strzegom Czekoladowy ciemny	0.1 kg (2.4%)	68 %	1200
Grain	Strzegom Czekoladowy jasny	0.1 kg (2.4%)	68 %	400
Grain	Jęczmień palony	0.05 kg (1.2%)	55 %	985

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	20 g	60 min	10.6 %

## Yeasts

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