

# Dry Stout 13.5 blg a la Guinness

- Gravity **13.8 BLG**
- ABV **5.7 %**
- IBU **26**
- SRM **33.8**
- Style **Foreign Extra 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 **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15.3 liter(s)**
- Total mash volume **20.4 liter(s)**

## Steps

- Temp **64 C**, Time **45 min**
- Temp **72 C**, Time **30 min**
- Temp **77 C**, Time **10 min**

## Mash step by step

- Heat up **15.3 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **45 min** at **64C**
- Keep mash **30 min** at **72C**
- Keep mash **10 min** at **77C**
- Sparge using **15.1 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

## Fermentables

| Type    | Name                      | Amount         | Yield | EBC  |
|---------|---------------------------|----------------|-------|------|
| Grain   | Viking Pilsner malt       | 2.2 kg (39.3%) | 82 %  | 4    |
| Grain   | Viking Pale Ale malt      | 2.2 kg (39.3%) | 80 %  | 5    |
| Grain   | Special B Castle          | 0.3 kg (5.4%)  | 70 %  | 350  |
| Grain   | Simpsons - Roasted Barley | 0.2 kg (3.6%)  | 70 %  | 1600 |
| Adjunct | Platki owsiane            | 0.5 kg (8.9%)  | 85 %  | 3    |
| Grain   | Simpsons - Chocolate Malt | 0.2 kg (3.6%)  | 73 %  | 1200 |

## Hops

| Use for             | Name                      | Amount | Time   | Alpha acid |
|---------------------|---------------------------|--------|--------|------------|
| Boil                | Columbus/Tomahawk/Zeus US | 15 g   | 60 min | 15.5 %     |
| Aroma (end of boil) | East Kent Goldings        | 10 g   | 10 min | 5.1 %      |

## Yeasts

| Name        | Type | Form | Amount | Laboratory |
|-------------|------|------|--------|------------|
| Safale S-04 | Ale  | Dry  | 11 g   | FERMENTIS  |