

# Stout Owsiany 13BLG

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **14**
- SRM **30.4**
- Style **Oatmeal Stout**

## Batch size

- Expected quantity of finished beer **19 liter(s)**
- Trub loss --- %
- Size with trub loss **19 liter(s)**
- Boil time **65 min**
- Evaporation rate **12 %/h**
- Boil size **23.6 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.75 liter(s) / kg**
- Mash size **16 liter(s)**
- Total mash volume **20.2 liter(s)**

## Steps

- Temp **68 C**, Time **60 min**
- Temp **76 C**, Time **10 min**

## Mash step by step

- Heat up **16 liter(s)** of strike water to **74.4C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **10 min** at **76C**
- Sparge using **11.9 liter(s)** of **76C** water or to achieve **23.6 liter(s)** of wort

## Fermentables

| Type  | Name                        | Amount          | Yield | EBC |
|-------|-----------------------------|-----------------|-------|-----|
| Grain | Weyermann - Pale Ale Malt   | 3.04 kg (69.2%) | 85 %  | 7   |
| Grain | Oats, Flaked                | 0.47 kg (10.7%) | 80 %  | 2   |
| Grain | Caraaroma                   | 0.28 kg (6.4%)  | 78 %  | 400 |
| Grain | Black Barley (Roast Barley) | 0.28 kg (6.4%)  | 55 %  | 985 |
| Grain | Carafa                      | 0.19 kg (4.3%)  | 70 %  | 664 |
| Sugar | Glukoza                     | 0.13 kg (3%)    | --- % | --- |

## Hops

| Use for | Name               | Amount  | Time     | Alpha acid |
|---------|--------------------|---------|----------|------------|
| Boil    | East Kent Goldings | 14.25 g | 60 min   | 5.1 %      |
| Boil    | East Kent Goldings | 14.25 g | 20 min   | 5.1 %      |
| Dry Hop | Mosaic             | 14.25 g | 5 day(s) | 10 %       |

## Yeasts

| Name        | Type | Form | Amount  | Laboratory |
|-------------|------|------|---------|------------|
| Safale S-04 | Ale  | Dry  | 10.92 g | Safale     |

## Extras

| Type   | Name       | Amount  | Use for   | Time     |
|--------|------------|---------|-----------|----------|
| Flavor | oak flakes | 23.75 g | Secondary | 5 day(s) |