

# CIEMNA STRONA PIWA

- Gravity **13.3 BLG**
- ABV **5.5 %**
- IBU **30**
- SRM **34**
- Style **Oatmeal Stout**

## Batch size

- Expected quantity of finished beer **35 liter(s)**
- Trub loss **10 %**
- Size with trub loss **42 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **50.8 liter(s)**

## Mash information

- Mash efficiency **89 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **32.2 liter(s)**
- Total mash volume **41.4 liter(s)**

## Steps

- Temp **64 C**, Time **60 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **32.2 liter(s)** of strike water to **70.3C**
- Add grains
- Keep mash **60 min** at **64C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **27.8 liter(s)** of **76C** water or to achieve **50.8 liter(s)** of wort

## Fermentables

| Type  | Name                     | Amount        | Yield | EBC |
|-------|--------------------------|---------------|-------|-----|
| Grain | Viking Pale Ale malt     | 6 kg (65.2%)  | 80 %  | 5   |
| Grain | Weyermann - Carafa I     | 0.5 kg (5.4%) | 70 %  | 690 |
| Grain | Caraaroma                | 0.5 kg (5.4%) | 78 %  | 400 |
| Grain | Fawcett - Pale Chocolate | 0.5 kg (5.4%) | 71 %  | 600 |
| Grain | Jęczmień palony          | 0.5 kg (5.4%) | 55 %  | 985 |
| Grain | Płatki orkiszowe         | 1.2 kg (13%)  | 80 %  | 4   |

## Hops

| Use for | Name   | Amount | Time   | Alpha acid |
|---------|--------|--------|--------|------------|
| Boil    | Magnat | 50 g   | 60 min | 11.2 %     |

## Yeasts

| Name  | Type | Form  | Amount | Laboratory |
|-------|------|-------|--------|------------|
| us-05 | Ale  | Slant | 50 ml  | ---        |

## Notes

- Chocolate i Jęczmień palony na koniec zacierania - ostatnie 15 minut

Recipe has been printed via **BREWNESS.com** - a complex online solution for homebrewers to track brewing process easily.

Carafa i Caraaroma na początek ze wszystkimi słodami  
*Jan 17, 2020, 11:54 AM*