

# Weizen na sucharach

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **13**
- SRM **3.5**
- Style **Weizen/Weissbier**

## Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **7 %**
- Size with trub loss **22.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **27.5 liter(s)**

## Mash information

- Mash efficiency **92 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **14 liter(s)**
- Total mash volume **18 liter(s)**

## Steps

- Temp **44 C**, Time **30 min**
- Temp **63 C**, Time **45 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **20 min**

## Mash step by step

- Heat up **14 liter(s)** of strike water to **47.4C**
- Add grains
- Keep mash **30 min** at **44C**
- Keep mash **45 min** at **63C**
- Keep mash **15 min** at **72C**
- Keep mash **20 min** at **78C**
- Sparge using **17.5 liter(s)** of **76C** water or to achieve **27.5 liter(s)** of wort

## Fermentables

| Type  | Name                | Amount     | Yield | EBC |
|-------|---------------------|------------|-------|-----|
| Grain | Strzegom Pilzneński | 2 kg (50%) | 80 %  | 4   |
| Grain | Strzegom Pszeniczny | 2 kg (50%) | 81 %  | 6   |

## Hops

| Use for | Name                  | Amount | Time   | Alpha acid |
|---------|-----------------------|--------|--------|------------|
| Boil    | Saaz (Czech Republic) | 20 g   | 50 min | 4 %        |
| Boil    | Saaz (Czech Republic) | 20 g   | 20 min | 4 %        |

## Yeasts

| Name                     | Type  | Form | Amount | Laboratory |
|--------------------------|-------|------|--------|------------|
| lallemand munich classic | Wheat | Dry  | 11 g   | lallemand  |

## Extras

| Type | Name | Amount | Use for | Time |
|------|------|--------|---------|------|
|------|------|--------|---------|------|

|             |                       |     |      |        |
|-------------|-----------------------|-----|------|--------|
| Water Agent | Pożywka Vitamon Combi | 5 g | Boil | 10 min |
|-------------|-----------------------|-----|------|--------|

## Notes

- Woda do zacierania bez modyfikacji

Filtracja z ok 1,5 l łuski gryczanej (płukana 3x)

Wystudzenie:

1. 9 l h<sub>2</sub>o + 1 ml kwasu mlekowego 80%

2. 9 l h<sub>2</sub>o + 1 ml kwasu mlekowego 80%

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