

# pszenica resztkowa

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **32**
- SRM **4.2**
- Style **American Wheat or Rye Beer**

## Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **7 %**
- Size with trub loss **25.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **30 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **17.1 liter(s)**
- Total mash volume **22.8 liter(s)**

## Steps

- Temp **66 C**, Time **60 min**
- Temp **72 C**, Time **10 min**
- Temp **76 C**, Time **5 min**

## Mash step by step

- Heat up **17.1 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **10 min** at **72C**
- Keep mash **5 min** at **76C**
- Sparge using **18.6 liter(s)** of **76C** water or to achieve **30 liter(s)** of wort

## Fermentables

| Type  | Name                 | Amount         | Yield | EBC |
|-------|----------------------|----------------|-------|-----|
| Grain | Viking Pale Ale malt | 2.5 kg (43.9%) | 80 %  | 5   |
| Grain | Pszeniczny           | 3 kg (52.6%)   | 85 %  | 4   |
| Grain | Strzegom Karmel 30   | 0.2 kg (3.5%)  | 75 %  | 30  |

## Hops

| Use for             | Name                   | Amount | Time     | Alpha acid |
|---------------------|------------------------|--------|----------|------------|
| Boil                | Centennial             | 30 g   | 55 min   | 10 %       |
| Boil                | Chinook                | 30 g   | 3 min    | 13 %       |
| Aroma (end of boil) | Centennial             | 20 g   | 0 min    | 10.5 %     |
| Aroma (end of boil) | Chinook                | 20 g   | 0 min    | 13 %       |
| Aroma (end of boil) | Columbus/Tomahawk/Zeus | 20 g   | 0 min    | 15.5 %     |
| Dry Hop             | Columbus/Tomahawk/Zeus | 30 g   | 3 day(s) | 15.5 %     |

## Yeasts

| Name | Type | Form  | Amount | Laboratory |
|------|------|-------|--------|------------|
| S04  | Ale  | Slant | 300 ml | ---        |