

# US Apszenicznik

- Gravity **14 BLG**
- ABV **5.8 %**
- IBU **42**
- SRM **4.2**
- Style **Witbier**

## 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 **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.5 liter(s)**
- Total mash volume **22 liter(s)**

## Steps

- Temp **44 C**, Time **10 min**
- Temp **52 C**, Time **10 min**
- Temp **62 C**, Time **45 min**
- Temp **72 C**, Time **40 min**

## Mash step by step

- Heat up **16.5 liter(s)** of strike water to **48C**
- Add grains
- Keep mash **10 min** at **44C**
- Keep mash **10 min** at **52C**
- Keep mash **45 min** at **62C**
- Keep mash **40 min** at **72C**
- Sparge using **14.3 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

## Fermentables

| Type  | Name                | Amount        | Yield | EBC |
|-------|---------------------|---------------|-------|-----|
| Grain | Pszeniczny          | 3 kg (54.5%)  | 85 %  | 4   |
| Grain | Strzegom Pilzneński | 2 kg (36.4%)  | 80 %  | 4   |
| Grain | pale cara           | 0.5 kg (9.1%) | 77 %  | 9   |

## Hops

| Use for             | Name   | Amount | Time   | Alpha acid |
|---------------------|--------|--------|--------|------------|
| Boil                | Mosaic | 25 g   | 60 min | 12 %       |
| Aroma (end of boil) | Mosaic | 25 g   | 10 min | 12 %       |

## Yeasts

| Name            | Type  | Form | Amount | Laboratory |
|-----------------|-------|------|--------|------------|
| fermentis wb-06 | Wheat | Dry  | 12.5 g | ---        |

## Extras

| Type  | Name     | Amount | Use for | Time   |
|-------|----------|--------|---------|--------|
| Spice | kolendra | 20 g   | Boil    | 10 min |

|       |                           |      |      |        |
|-------|---------------------------|------|------|--------|
| Spice | suszona skórka pomarańczy | 10 g | Boil | 10 min |
| Spice | świeża skórka pomarańczy  | 35 g | Boil | 7 min  |
| Spice | świeża skórka cytryny     | 25 g | Boil | 7 min  |