

SOSNOWE APA

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **35**
- SRM **7.7**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.1 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.3 liter(s) / kg**
- Mash size **18.5 liter(s)**
- Total mash volume **24.1 liter(s)**

Steps

- Temp **64 C**, Time **50 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **18.5 liter(s)** of strike water to **70.7C**
- Add grains
- Keep mash **50 min** at **64C**
- Keep mash **15 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **18.2 liter(s)** of **76C** water or to achieve **31.1 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|--------------------|---------------|-------|-----|
| Grain | Pale Ale | 4 kg (71.4%) | 80 % | 5 |
| Grain | Monachijski typ II | 1 kg (17.9%) | 79 % | 22 |
| Grain | Caraamber | 0.5 kg (8.9%) | 75 % | 59 |
| Grain | Carabohemian | 0.1 kg (1.8%) | 75 % | 200 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|--------|--------|--------|------------|
| Boil | Simcoe | 15 g | 60 min | 12.2 % |
| Boil | Simcoe | 15 g | 20 min | 12.2 % |
| Boil | Simcoe | 20 g | 10 min | 12.2 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale | Dry | 11.5 g | Fermentis |

Extras

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

| | | | | |
|-------|------------|-------|-----------|----------|
| Spice | Pędy sosny | 100 g | Secondary | 7 day(s) |
|-------|------------|-------|-----------|----------|

Notes

- Z pędów sosny wykonać herbatkę i wystudzoną dolać w całości na cichą fermentację. Podczas warzenia wziąć pod uwagę zwiększenie objętości oraz rozcieńczenie warki.
May 23, 2022, 9:22 PM