

#13 AIPA piwo.org

- Gravity **15.2 BLG**
- ABV ---
- IBU **62**
- SRM **7.1**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **70 min**
- Evaporation rate **12 %/h**
- Boil size **27.4 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **17.9 liter(s)**
- Total mash volume **23.8 liter(s)**

Steps

- Temp **68 C**, Time **60 min**
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up **17.9 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **10 min** at **76C**
- Sparge using **15.5 liter(s)** of **76C** water or to achieve **27.4 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------|----------------|-------|-----|
| Grain | Strzegom Pale Ale | 5 kg (84%) | 79 % | 6 |
| Grain | Strzegom Monachijski typ I | 0.7 kg (11.8%) | 79 % | 16 |
| Grain | Briess - Carapils Malt | 0.25 kg (4.2%) | 74 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|----------|--------|----------|------------|
| Boil | Amarillo | 30 g | 60 min | 8.8 % |
| Boil | Amarillo | 30 g | 30 min | 8.8 % |
| Boil | Amarillo | 30 g | 15 min | 8.8 % |
| Boil | Amarillo | 10 g | 0 min | 8.8 % |
| Boil | Cascade | 20 g | 0 min | 6.8 % |
| Dry Hop | Cascade | 50 g | 3 day(s) | 6.8 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------|------|-------|--------|------------|
| us-05 | Ale | Slant | 140 ml | --- |

Extras

| Type | Name | Amount | Use for | Time |
|-------------|-----------------|--------|---------|--------|
| Water Agent | gips piwowarski | 4 g | Mash | 60 min |