

IPA vol2

- Gravity **13.3 BLG**
- ABV **5.5 %**
- IBU **42**
- SRM **5.9**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **25.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **30.4 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **19.5 liter(s)**
- Total mash volume **26 liter(s)**

Steps

- Temp **63 C**, Time **50 min**
- Temp **72 C**, Time **20 min**

Mash step by step

- Heat up **19.5 liter(s)** of strike water to **70.2C**
- Add grains
- Keep mash **50 min** at **63C**
- Keep mash **20 min** at **72C**
- Sparge using **17.4 liter(s)** of **76C** water or to achieve **30.4 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------|----------------|-------|-----|
| Grain | Strzegom Pale Ale | 2 kg (30.8%) | 79 % | 6 |
| Grain | Strzegom Wiedeński | 2 kg (30.8%) | 79 % | 10 |
| Grain | Strzegom Pilzneński | 1.7 kg (26.2%) | 80 % | 4 |
| Grain | Strzegom Monachijski typ I | 0.5 kg (7.7%) | 79 % | 16 |
| Grain | Strzegom Karmel 30 | 0.3 kg (4.6%) | 75 % | 30 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|-------------------|--------|----------|------------|
| Boil | Galaxy | 5 g | 60 min | 17.9 % |
| Boil | Nugget | 13 g | 60 min | 13.4 % |
| Boil | Lublin (Lubelski) | 10 g | 60 min | 4 % |
| Boil | Cascade PL | 5 g | 60 min | 5.2 % |
| Aroma (end of boil) | Galaxy | 10 g | 10 min | 17.9 % |
| Aroma (end of boil) | Amarillo | 13 g | 10 min | 9.5 % |
| Aroma (end of boil) | Cascade PL | 15 g | 10 min | 5.2 % |
| Dry Hop | Cascade PL | 10 g | 5 day(s) | 5.2 % |
| Dry Hop | Galaxy | 10 g | 5 day(s) | 15 % |

Yeasts

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

Extras

| Type | Name | Amount | Use for | Time |
|--------|----------------|--------|---------|--------|
| Fining | Mech irlandzki | 7 g | Boil | 10 min |