

Imperial IPA

- Gravity **20 BLG**
- ABV ---
- IBU **113**
- SRM **7**
- Style **Imperial IPA**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **10 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **25.3 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **19.2 liter(s)**
- Total mash volume **25.6 liter(s)**

Steps

- Temp **62 C**, Time **60 min**
- Temp **72 C**, Time **45 min**
- Temp **79 C**, Time **5 min**

Mash step by step

- Heat up **19.2 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **60 min** at **62C**
- Keep mash **45 min** at **72C**
- Keep mash **5 min** at **79C**
- Sparge using **12.5 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------------|----------------|--------|-----|
| Grain | Weyermann - Pale Ale Malt | 4 kg (58%) | 85 % | 7 |
| Grain | Strzegom Wiedeński | 1.5 kg (21.7%) | 79 % | 10 |
| Grain | Pszeniczny | 0.5 kg (7.2%) | 85 % | 4 |
| Grain | Biscuit Malt | 0.2 kg (2.9%) | 79 % | 45 |
| Grain | Weyermann - Acidulated Malt | 0.2 kg (2.9%) | 80 % | 6 |
| Sugar | Candi Sugar, Clear | 0.5 kg (7.2%) | 78.3 % | 2 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil | Warrior | 45 g | 60 min | 17 % |
| Boil | Mosaic | 15 g | 40 min | 12 % |
| Boil | Cascade | 15 g | 40 min | 8 % |
| Boil | Citra | 15 g | 40 min | 12 % |
| Boil | Mosaic | 5 g | 10 min | 12 % |
| Boil | Cascade | 5 g | 10 min | 8 % |
| Boil | Citra | 5 g | 10 min | 12 % |

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|------|---------|------|-------|------|
| Boil | Mosaic | 10 g | 5 min | 12 % |
| Boil | Cascade | 10 g | 5 min | 8 % |
| Boil | Citra | 10 g | 5 min | 12 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale | Dry | 12 g | Fermentis |