

Imperial IPA (Czesław Dziełak)

- Gravity **18.4 BLG**
- ABV **8 %**
- IBU **57**
- SRM **7.2**
- Style **Imperial IPA**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23 liter(s)**
- Boil time **80 min**
- Evaporation rate **10 %/h**
- Boil size **28.3 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **2.5 liter(s) / kg**
- Mash size **20.3 liter(s)**
- Total mash volume **28.4 liter(s)**

Steps

- Temp **64 C**, Time **60 min**
- Temp **71 C**, Time **15 min**
- Temp **76 C**, Time **4 min**

Mash step by step

- Heat up **20.3 liter(s)** of strike water to **72.8C**
- Add grains
- Keep mash **60 min** at **64C**
- Keep mash **15 min** at **71C**
- Keep mash **4 min** at **76C**
- Sparge using **16.1 liter(s)** of **76C** water or to achieve **28.3 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|---|----------------|-------|-----|
| Grain | Słód Pilsner® 2,5-4,5 EBC Weyermann | 6.5 kg (80.2%) | 80 % | 4 |
| Grain | Weyermann - Słód pszeniczny | 0.8 kg (9.9%) | 82 % | 4 |
| Grain | Słód monachijski | 0.55 kg (6.8%) | 80 % | 14 |
| Grain | Castlemalting - Cara Gold | 0.25 kg (3.1%) | 78 % | 120 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|------------------------|--------|----------|------------|
| Boil | Magnum | 30 g | 70 min | 11.5 % |
| Boil | Columbus/Tomahawk/Zeus | 25 g | 15 min | 13.1 % |
| Boil | Centennial | 30 g | 10 min | 8.9 % |
| Boil | Simcoe | 30 g | 5 min | 12.9 % |
| Aroma (end of boil) | Citra | 25 g | 1 min | 12.9 % |
| Dry Hop | Centennial | 50 g | 3 day(s) | 8.9 % |
| Dry Hop | Amarillo | 50 g | 3 day(s) | 8.5 % |
| Dry Hop | Simcoe | 50 g | 3 day(s) | 12.9 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|-------|--------|------------|
| Gęstwa US-05 | Ale | Slant | 150 ml | --- |

Extras

| Type | Name | Amount | Use for | Time |
|-------------|------------|--------|---------|--------|
| Water Agent | Whirfllock | 5 g | Boil | 15 min |