

## #19 Imperial Hopy Witbier

- Gravity **16.8 BLG**
- ABV **7.1 %**
- IBU **70**
- SRM **4**
- Style **American IPA**

### Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **5 %**
- Size with trub loss **10.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **12.7 liter(s)**

### Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **9.3 liter(s)**
- Total mash volume **12.4 liter(s)**

### Steps

- Temp **64 C**, Time **60 min**

### Mash step by step

- Heat up **9.3 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **60 min** at **64C**
- Sparge using **6.5 liter(s)** of **76C** water or to achieve **12.7 liter(s)** of wort

### Fermentables

| Type  | Name                | Amount         | Yield | EBC |
|-------|---------------------|----------------|-------|-----|
| Grain | Strzegom Pilzneński | 1.5 kg (48.4%) | 80 %  | 4   |
| Grain | Płatki pszeniczne   | 0.8 kg (25.8%) | 85 %  | 3   |
| Grain | Płatki owsiane      | 0.8 kg (25.8%) | 85 %  | 3   |

### Hops

| Use for   | Name       | Amount | Time     | Alpha acid |
|-----------|------------|--------|----------|------------|
| Boil      | Warrior    | 10 g   | 60 min   | 15.5 %     |
| Boil      | Centennial | 20 g   | 15 min   | 10.5 %     |
| Boil      | Citra      | 20 g   | 15 min   | 12 %       |
| Whirlpool | Centennial | 30 g   | 0 min    | 10.5 %     |
| Whirlpool | Citra      | 30 g   | 0 min    | 12 %       |
| Dry Hop   | Centennial | 50 g   | 2 day(s) | 10.5 %     |
| Dry Hop   | Citra      | 50 g   | 2 day(s) | 12 %       |

### Yeasts

| Name               | Type  | Form   | Amount | Laboratory       |
|--------------------|-------|--------|--------|------------------|
| FM20 Białe Walonki | Wheat | Liquid | 40 ml  | Fermentum Mobile |

### Extras

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

|       |               |        |           |          |
|-------|---------------|--------|-----------|----------|
| Spice | Sok ananasowy | 1000 g | Secondary | 7 day(s) |
|-------|---------------|--------|-----------|----------|