

# IPA PI

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- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **63**
- SRM **5.4**
- 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 **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.4 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **14.6 liter(s)**
- Total mash volume **19.4 liter(s)**

## Steps

- Temp **67 C**, Time **90 min**
- Temp **78 C**, Time **5 min**

## Mash step by step

- Heat up **14.6 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **90 min** at **67C**
- Keep mash **5 min** at **78C**
- Sparge using **16.7 liter(s)** of **76C** water or to achieve **26.4 liter(s)** of wort

## Fermentables

| Type  | Name               | Amount         | Yield | EBC |
|-------|--------------------|----------------|-------|-----|
| Grain | Castle Pale Ale    | 4.2 kg (86.6%) | 80 %  | 8   |
| Grain | Pszeniczny         | 0.4 kg (8.2%)  | 85 %  | 4   |
| Grain | Strzegom Karmel 30 | 0.25 kg (5.2%) | 75 %  | 30  |

## Hops

| Use for | Name       | Amount | Time     | Alpha acid |
|---------|------------|--------|----------|------------|
| Boil    | lunga      | 25 g   | 60 min   | 11 %       |
| Boil    | Puławski   | 30 g   | 15 min   | 8.9 %      |
| Boil    | Cascade PL | 50 g   | 10 min   | 5.2 %      |
| Boil    | Oktawia    | 30 g   | 10 min   | 7.1 %      |
| Dry Hop | Cascade PL | 50 g   | 6 day(s) | 5.2 %      |
| Dry Hop | Chinook    | 30 g   | 6 day(s) | 13 %       |

## Yeasts

| Name   | Type | Form | Amount | Laboratory |
|--------|------|------|--------|------------|
| us -05 | Ale  | Dry  | 11 g   | ---        |

## Extras

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

|             |                 |     |      |        |
|-------------|-----------------|-----|------|--------|
| Water Agent | gips piwowarski | 4 g | Mash | 90 min |
| Fining      | mech irlandzki  | 5 g | Boil | 5 min  |