

# Gruchowa IPA

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- Gravity **15.7 BLG**
- ABV **6.6 %**
- IBU **41**
- SRM **5.6**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **12 liter(s)**
- Trub loss **5 %**
- Size with trub loss **12.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **15.2 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **10.5 liter(s)**
- Total mash volume **14 liter(s)**

## Steps

- Temp **66 C**, Time **50 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **10.5 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **50 min** at **66C**
- Keep mash **10 min** at **78C**
- Sparge using **8.2 liter(s)** of **76C** water or to achieve **15.2 liter(s)** of wort

## Fermentables

| Type  | Name                       | Amount         | Yield | EBC |
|-------|----------------------------|----------------|-------|-----|
| Grain | Pilzneński                 | 2 kg (57.1%)   | 81 %  | 4   |
| Grain | Monachijski                | 0.7 kg (20%)   | 80 %  | 16  |
| Grain | Żytni                      | 0.4 kg (11.4%) | 85 %  | 8   |
| Grain | Strzegom Wiedeński         | 0.2 kg (5.7%)  | 79 %  | 10  |
| Grain | Castlemalting - Cara Clair | 0.2 kg (5.7%)  | 78 %  | 4   |

## Hops

| Use for | Name             | Amount | Time   | Alpha acid |
|---------|------------------|--------|--------|------------|
| Boil    | Citra            | 13 g   | 60 min | 12 %       |
| Boil    | Southern Passion | 15 g   | 15 min | 11.7 %     |
| Boil    | Southern Passion | 20 g   | 1 min  | 11.7 %     |