

# Barry Allen

- Gravity **28.1 BLG**
- ABV **13.6 %**
- IBU **69**
- SRM **21.3**
- Style **American Barleywine**

## Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **15.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **19 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **2.5 liter(s) / kg**
- Mash size **22.5 liter(s)**
- Total mash volume **31.5 liter(s)**

## Steps

- Temp **67 C**, Time **60 min**
- Temp **72 C**, Time **10 min**
- Temp **78 C**, Time **1 min**

## Mash step by step

- Heat up **22.5 liter(s)** of strike water to **76.4C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **10 min** at **72C**
- Keep mash **1 min** at **78C**
- Sparge using **5.5 liter(s)** of **76C** water or to achieve **19 liter(s)** of wort

## Fermentables

| Type  | Name                       | Amount        | Yield | EBC |
|-------|----------------------------|---------------|-------|-----|
| Grain | Viking Pale Ale malt       | 6 kg (66.7%)  | 80 %  | 5   |
| Grain | Strzegom Pilzneński        | 2 kg (22.2%)  | 80 %  | 4   |
| Grain | Strzegom Karmel 30         | 0.5 kg (5.6%) | 75 %  | 30  |
| Grain | Strzegom Czekoladowy jasny | 0.5 kg (5.6%) | 68 %  | 400 |

## Hops

| Use for | Name                   | Amount | Time   | Alpha acid |
|---------|------------------------|--------|--------|------------|
| Boil    | Chinook                | 15 g   | 90 min | 13 %       |
| Boil    | Cascade PL             | 30 g   | 30 min | 5.2 %      |
| Boil    | Columbus/Tomahawk/Zeus | 30 g   | 90 min | 15.5 %     |
| Boil    | Sybilla                | 20 g   | 10 min | 6.9 %      |

## Yeasts

| Name  | Type | Form | Amount | Laboratory |
|-------|------|------|--------|------------|
| US-05 | Ale  | Dry  | 11.5 g | Fermentis  |

## Extras

| Type   | Name                              | Amount | Use for | Time      |
|--------|-----------------------------------|--------|---------|-----------|
| Flavor | Płatki dębowe macerowane w whisky | 20 g   | Primary | 10 day(s) |