

# polish ale

---

- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **38**
- SRM **4**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.5 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **17.5 liter(s)**
- Total mash volume **22.5 liter(s)**

## Steps

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

## Mash step by step

- Heat up **17.5 liter(s)** of strike water to **79.4C**
- Add grains
- Keep mash **60 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **14 liter(s)** of **76C** water or to achieve **26.5 liter(s)** of wort

## Fermentables

| Type  | Name                 | Amount      | Yield | EBC |
|-------|----------------------|-------------|-------|-----|
| Grain | Viking Pale Ale malt | 5 kg (100%) | 80 %  | 5   |

## Hops

| Use for             | Name              | Amount | Time     | Alpha acid |
|---------------------|-------------------|--------|----------|------------|
| Boil                | Marynka           | 5 g    | 60 min   | 9.5 %      |
| Aroma (end of boil) | Marynka           | 15 g   | 5 min    | 9.5 %      |
| Whirlpool           | Marynka           | 80 g   | 30 min   | 9.5 %      |
| Dry Hop             | Lublin (Lubelski) | 100 g  | 2 day(s) | 4.4 %      |

## Yeasts

| Name  | Type | Form  | Amount | Laboratory |
|-------|------|-------|--------|------------|
| us-05 | Ale  | Slant | 150 ml | safale     |

## Extras

| Type        | Name                          | Amount | Use for | Time   |
|-------------|-------------------------------|--------|---------|--------|
| Water Agent | gips                          | 5 g    | Boil    | 60 min |
| Other       | płatki drożdżowe -<br>pożywka | 5 g    | Boil    | 60 min |
| Fining      | whirlfloc 1/2 tabl.           | 1 g    | Boil    | 5 min  |