

# Hoppy Grodziskie

- Gravity **8 BLG**
- ABV **3.1 %**
- IBU **22**
- SRM **3.1**
- Style **Grodziskie**

## Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.8 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **9.9 liter(s)**
- Total mash volume **13.2 liter(s)**

## Steps

- Temp **39 C**, Time **50 min**
- Temp **51 C**, Time **20 min**
- Temp **66 C**, Time **30 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **5 min**

## Mash step by step

- Heat up **9.9 liter(s)** of strike water to **42.2C**
- Add grains
- Keep mash **50 min** at **39C**
- Keep mash **20 min** at **51C**
- Keep mash **30 min** at **66C**
- Keep mash **15 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **21.2 liter(s)** of **76C** water or to achieve **27.8 liter(s)** of wort

## Fermentables

| Type  | Name                     | Amount         | Yield | EBC |
|-------|--------------------------|----------------|-------|-----|
| Grain | Pszeniczny wędzony dębem | 2.5 kg (75.8%) | 83 %  | 6   |
| Grain | Pszeniczny - Soufflete   | 0.8 kg (24.2%) | 85 %  | 4   |

## Hops

| Use for | Name                  | Amount | Time     | Alpha acid |
|---------|-----------------------|--------|----------|------------|
| Boil    | Hallertauer Tradition | 20 g   | 20 min   | 3.8 %      |
| Boil    | Hallertauer Tradition | 20 g   | 5 min    | 3.8 %      |
| Boil    | Iunga                 | 10 g   | 60 min   | 10.5 %     |
| Boil    | Izabella              | 20 g   | 5 min    | 5 %        |
| Dry Hop | Izabella              | 25 g   | 3 day(s) | 5 %        |

## Yeasts

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

## Extras

| Type   | Name           | Amount | Use for | Time   |
|--------|----------------|--------|---------|--------|
| Fining | Mech Irlandzki | 5 g    | Boil    | 10 min |