

## Na Boże Narodzenie 2

- Gravity **19.8 BLG**
- ABV **8.7 %**
- IBU **28**
- SRM **8.2**
- Style **Christmas/Winter Specialty Spiced Beer**

### Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **15.8 liter(s)**
- Boil time **120 min**
- Evaporation rate **10 %/h**
- Boil size **20.8 liter(s)**

### Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.2 liter(s) / kg**
- Mash size **17.3 liter(s)**
- Total mash volume **22.7 liter(s)**

### Steps

- Temp **67 C**, Time **60 min**
- Temp **78 C**, Time **15 min**

### Mash step by step

- Heat up **17.3 liter(s)** of strike water to **74.3C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **15 min** at **78C**
- Sparge using **8.9 liter(s)** of **76C** water or to achieve **20.8 liter(s)** of wort

### Fermentables

| Type  | Name                      | Amount        | Yield | EBC |
|-------|---------------------------|---------------|-------|-----|
| Grain | Weyermann - Pale Ale Malt | 4.7 kg (87%)  | 85 %  | 7   |
| Grain | Carabelge                 | 0.3 kg (5.6%) | 80 %  | 30  |
| Grain | Caramunich® typ I         | 0.2 kg (3.7%) | 73 %  | 80  |
| Grain | Płatki owsiane            | 0.2 kg (3.7%) | 85 %  | 3   |

### Hops

| Use for | Name            | Amount | Time   | Alpha acid |
|---------|-----------------|--------|--------|------------|
| Boil    | Saaz            | 45 g   | 50 min | 2.95 %     |
| Boil    | Cascade PL      | 20 g   | 50 min | 5 %        |
| Boil    | Styrian Golding | 30 g   | 15 min | 2.3 %      |

### Yeasts

| Name                     | Type | Form | Amount | Laboratory |
|--------------------------|------|------|--------|------------|
| Fermentis Safbrew BE-256 | Ale  | Dry  | 11.5 g | Fermentis  |

### Extras

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

|        |                   |       |      |        |
|--------|-------------------|-------|------|--------|
| Flavor | Pomarańcza słodka | 15 g  | Boil | 15 min |
| Spice  | Kolendra          | 5.5 g | Boil | 15 min |
| Spice  | Cynamon           | 3.2 g | Boil | 15 min |
| Spice  | Imbir w proszku   | 2.1 g | Boil | 15 min |