

# Witbier Nadmorski - Dębkowe

- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **12**
- SRM **3.3**
- Style **Witbier**

## Batch size

- Expected quantity of finished beer **19 liter(s)**
- Trub loss **5 %**
- Size with trub loss **19.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **21.9 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.41 liter(s) / kg**
- Mash size **14 liter(s)**
- Total mash volume **18.1 liter(s)**

## Steps

- Temp **62 C**, Time **30 min**
- Temp **72 C**, Time **70 min**
- Temp **76 C**, Time **1 min**

## Mash step by step

- Heat up **14 liter(s)** of strike water to **68.2C**
- Add grains
- Keep mash **30 min** at **62C**
- Keep mash **70 min** at **72C**
- Keep mash **1 min** at **76C**
- Sparge using **12 liter(s)** of **76C** water or to achieve **21.9 liter(s)** of wort

## Fermentables

| Type  | Name                  | Amount         | Yield | EBC |
|-------|-----------------------|----------------|-------|-----|
| Grain | Pilzneński            | 1.7 kg (41.5%) | 81 %  | 4   |
| Grain | Pszenica niesłodowana | 1.7 kg (41.5%) | 75 %  | 3   |
| Grain | Oats, Flaked          | 0.4 kg (9.8%)  | 80 %  | 2   |
| Grain | Diastatyczny          | 0.3 kg (7.3%)  | 80 %  | 4   |

## Hops

| Use for | Name              | Amount | Time   | Alpha acid |
|---------|-------------------|--------|--------|------------|
| Boil    | Lublin (Lubelski) | 25 g   | 60 min | 3.6 %      |

## Yeasts

| Name         | Type | Form  | Amount | Laboratory |
|--------------|------|-------|--------|------------|
| Safbrew S-33 | Ale  | Slant | 150 ml | Safbrew    |

## Extras

| Type  | Name     | Amount | Use for | Time   |
|-------|----------|--------|---------|--------|
| Spice | Kolendra | 15 g   | Boil    | 10 min |
| Spice | Curacao  | 20 g   | Boil    | 10 min |

|       |                            |      |      |       |
|-------|----------------------------|------|------|-------|
| Spice | Skórki słodkiej pomarańczy | 20 g | Boil | 5 min |
|-------|----------------------------|------|------|-------|