

## 3# Czorno pszenico

- Gravity **9.3 BLG**
- ABV ---
- IBU **11**
- SRM **25.5**
- Style **Dunkelweizen**

### Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **5 %**
- Size with trub loss **10.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **12.7 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **5.1 liter(s)**
- Total mash volume **6.8 liter(s)**

### Steps

- Temp **44 C**, Time **20 min**
- Temp **63 C**, Time **45 min**
- Temp **72 C**, Time **20 min**

### Mash step by step

- Heat up **5.1 liter(s)** of strike water to **48C**
- Add grains
- Keep mash **20 min** at **44C**
- Keep mash **45 min** at **63C**
- Keep mash **20 min** at **72C**
- Sparge using **9.3 liter(s)** of **76C** water or to achieve **12.7 liter(s)** of wort

### Fermentables

| Type  | Name                       | Amount         | Yield | EBC  |
|-------|----------------------------|----------------|-------|------|
| Grain | Weyermann pszeniczny jasny | 1.6 kg (94.1%) | 80 %  | 6    |
| Grain | Strzegom Czekoladowy 1200  | 0.1 kg (5.9%)  | 68 %  | 1202 |

### Hops

| Use for | Name              | Amount | Time   | Alpha acid |
|---------|-------------------|--------|--------|------------|
| Boil    | Lublin (Lubelski) | 10 g   | 60 min | 4 %        |

### Yeasts

| Name                | Type  | Form   | Amount | Laboratory       |
|---------------------|-------|--------|--------|------------------|
| FM40 Pszeniczny Łan | Wheat | Liquid | 30 ml  | Fermentum Mobile |

### Extras

| Type        | Name     | Amount | Use for | Time      |
|-------------|----------|--------|---------|-----------|
| Water Agent | guwno XD | 700 g  | Primary | 50 day(s) |