

## [Kveik] Munch Dunkel z dodatkami

- Gravity **13.1 BLG**
- ABV **5.3 %**
- IBU **23**
- SRM **18.5**
- Style **Munich Dunkel**

### Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **5 %**
- Size with trub loss **12 liter(s)**
- Boil time **60 min**
- Evaporation rate **20 %/h**
- Boil size **15.6 liter(s)**

### Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **11.2 liter(s)**
- Total mash volume **14.4 liter(s)**

### Steps

- Temp **69 C**, Time **60 min**
- Temp **76 C**, Time **5 min**

### Mash step by step

- Heat up **11.2 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **60 min** at **69C**
- Keep mash **5 min** at **76C**
- Sparge using **7.6 liter(s)** of **76C** water or to achieve **15.6 liter(s)** of wort

### Fermentables

| Type  | Name                        | Amount         | Yield | EBC  |
|-------|-----------------------------|----------------|-------|------|
| Grain | Viking Pale Ale malt        | 1.3 kg (40.6%) | 80 %  | 5    |
| Grain | Strzegom Monachijski typ I  | 1.2 kg (37.5%) | 79 %  | 16   |
| Grain | Strzegom Monachijski typ II | 0.6 kg (18.7%) | 79 %  | 22   |
| Grain | Strzegom Czekoladowy ciemny | 0.1 kg (3.1%)  | 68 %  | 1200 |

### Hops

| Use for | Name    | Amount | Time   | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil    | Marynka | 10 g   | 60 min | 8.6 %      |
| Boil    | Marynka | 20 g   | 5 min  | 8.6 %      |

### Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
| Oslo | Ale  | Dry  | 10 g   | ---        |

### Extras

| Type   | Name           | Amount | Use for | Time   |
|--------|----------------|--------|---------|--------|
| Fining | Mech irlandzki | 3 g    | Boil    | 10 min |

|        |                 |       |           |          |
|--------|-----------------|-------|-----------|----------|
| Flavor | Dodatek numer 1 | 100 g | Boil      | 15 min   |
| Flavor | Dodatek numer 2 | 25 g  | Secondary | 7 day(s) |