

Kazbek Extra Pils

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **44**
- SRM **6.3**
- Style **German Pilsner (Pils)**

Batch size

- Expected quantity of finished beer **16 liter(s)**
- Trub loss **5 %**
- Size with trub loss **17.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **21.1 liter(s)**

Mash information

- Mash efficiency **72 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **13.2 liter(s)**
- Total mash volume **17.6 liter(s)**

Steps

- Temp **63 C**, Time **15 min**
- Temp **72 C**, Time **45 min**

Mash step by step

- Heat up **13.2 liter(s)** of strike water to **70.2C**
- Add grains
- Keep mash **15 min** at **63C**
- Keep mash **45 min** at **72C**
- Sparge using **12.3 liter(s)** of **76C** water or to achieve **21.1 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|--------------------------|----------------|-------|-----|
| Grain | Pilzneński | 2.5 kg (56.8%) | 81 % | 4 |
| Grain | Monachijski | 1.7 kg (38.6%) | 80 % | 16 |
| Grain | Karmelowy Jasny 30EBC | 0.2 kg (4.5%) | 75 % | 30 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|--------|--------|----------|------------|
| Boil | Kazbek | 30 g | 60 min | 4.6 % |
| Boil | Kazbek | 50 g | 20 min | 4.6 % |
| Boil | Kazbek | 20 g | 10 min | 4.6 % |
| Aroma (end of boil) | Kazbek | 30 g | 5 min | 4.6 % |
| Dry Hop | Kazbek | 40 g | 4 day(s) | 4.6 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------------------------|-------|--------|--------|------------------|
| FM31 Bawarska Dolina | Lager | Liquid | 30 ml | Fermentum Mobile |