

## PB Bitter

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **34**
- SRM **13.7**
- Style **Extra Special/Strong Bitter (English Pale Ale)**

### Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

### Fermentables

| Type           | Name                              | Amount         | Yield | EBC |
|----------------|-----------------------------------|----------------|-------|-----|
| Liquid Extract | Ekstrakt słodowy pale ale Bruntal | 3.4 kg (91.9%) | 82 %  | 40  |
| Grain          | Caramel/Crystal Malt - 120L       | 0.3 kg (8.1%)  | 72 %  | 150 |

### Hops

| Use for | Name               | Amount | Time   | Alpha acid |
|---------|--------------------|--------|--------|------------|
| Boil    | Lublin (Lubelski)  | 10 g   | 5 min  | 3.5 %      |
| Boil    | East Kent Goldings | 30 g   | 5 min  | 5.1 %      |
| Boil    | Lublin (Lubelski)  | 20 g   | 20 min | 3.5 %      |
| Boil    | Marynka            | 30 g   | 60 min | 7.7 %      |

### Yeasts

| Name        | Type | Form | Amount | Laboratory |
|-------------|------|------|--------|------------|
| Safale S-04 | Ale  | Dry  | 11.5 g | ---        |