

Bitter Trzy Baryłki

- Gravity **11.2 BLG**
- ABV **4.5 %**
- IBU **26**
- SRM **13.5**
- Style **Special/Best/Premium Bitter**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **32.2 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **4.2 liter(s) / kg**
- Mash size **23.5 liter(s)**
- Total mash volume **29.1 liter(s)**

Steps

- Temp **66 C**, Time **90 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **23.5 liter(s)** of strike water to **71.5C**
- Add grains
- Keep mash **90 min** at **66C**
- Keep mash **5 min** at **78C**
- Sparge using **14.3 liter(s)** of **76C** water or to achieve **32.2 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Briess - Pale Ale Malt	2.5 kg (44.6%)	80 %	7
Grain	Strzegom Monachijski typ II	2 kg (35.7%)	79 %	16
Grain	Strzegom Karmel 150	0.2 kg (3.6%)	75 %	150
Grain	Pszeniczny	0.4 kg (7.1%)	85 %	4
Grain	Biscuit Malt	0.4 kg (7.1%)	79 %	45
Grain	Strzegom Czekoladowy ciemny	0.1 kg (1.8%)	68 %	1200

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	15 g	60 min	9.4 %
Boil	Marynka	25 g	20 min	9.4 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	16.43 g	Fermentis