

English Pale Ale

- Gravity **13.1 BLG**
- ABV **5.3 %**
- IBU **27**
- SRM **5.7**
- Style **Extra Special/Strong Bitter (English Pale Ale)**

Batch size

- Expected quantity of finished beer **11 liter(s)**
- Trub loss **10 %**
- Size with trub loss **12.1 liter(s)**
- Boil time **65 min**
- Evaporation rate **10 %/h**
- Boil size **14.6 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.4 liter(s) / kg**
- Mash size **10.2 liter(s)**
- Total mash volume **13.2 liter(s)**

Steps

- Temp **68 C**, Time **70 min**
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up **10.2 liter(s)** of strike water to **75.1C**
- Add grains
- Keep mash **70 min** at **68C**
- Keep mash **5 min** at **76C**
- Sparge using **7.4 liter(s)** of **76C** water or to achieve **14.6 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2.7 kg (90%)	80 %	5
Grain	Strzegom Karmel 30	0.15 kg (5%)	75 %	30
Grain	Biscuit Malt	0.15 kg (5%)	79 %	50

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Challenger	25 g	35 min	7 %
Boil	East Kent Goldings	25 g	0 min	5.1 %

Yeasts

Name	Type	Form	Amount	Laboratory
Danstar - Windsor Ale	Ale	Dry	11.5 g	Danstar