

# Światowa India Pale Ale

---

- Gravity **13.8 BLG**
- ABV **5.7 %**
- IBU **96**
- SRM **4.4**
- Style **American 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)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.5 liter(s)**
- Total mash volume **22 liter(s)**

## Steps

- Temp **66 C**, Time **60 min**
- Temp **72 C**, Time **30 min**
- Temp **77 C**, Time **10 min**

## Mash step by step

- Heat up **16.5 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **30 min** at **72C**
- Keep mash **10 min** at **77C**
- Sparge using **14.3 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5.5 kg (100%)	80 %	5

## Hops

Use for	Name	Amount	Time	Alpha acid
Dry Hop	Styrian Wolf	60 g	3 day(s)	11.1 %
Aroma (end of boil)	Styrian Wolf	30 g	15 min	11.1 %
Boil	Marynka	60 g	60 min	10 %
Aroma (end of boil)	Mandarina Bavaria	30 g	15 min	10 %
Dry Hop	Mandarina Bavaria	60 g	3 day(s)	10 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-33	Ale	Dry	10 g	Fermentis