

# American india pale ale 17

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- Gravity **15.4 BLG**
- ABV ---
- IBU **60**
- SRM **10**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **24 liter(s)**
- Trub loss **1 %**
- Size with trub loss **24.2 liter(s)**
- Boil time **90 min**
- Evaporation rate **1 %/h**
- Boil size **24.9 liter(s)**

## Mash information

- Mash efficiency **95 %**
- Liquor-to-grist ratio **2.85 liter(s) / kg**
- Mash size **17.1 liter(s)**
- Total mash volume **23.1 liter(s)**

## Steps

- Temp **67 C**, Time **70 min**
- Temp **67 C**, Time **10 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **17.1 liter(s)** of strike water to **75.2C**
- Add grains
- Keep mash **10 min** at **67C**
- Keep mash **70 min** at **67C**
- Keep mash **10 min** at **78C**
- Sparge using **13.8 liter(s)** of **76C** water or to achieve **24.9 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Słód pale ale	5 kg (83.3%)	70 %	12
Grain	Monachijski	1 kg (16.7%)	65 %	16

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Simcoe	20 g	60 min	13.2 %
Boil	Simcoe	20 g	40 min	13.2 %
Boil	Amarillo	25 g	15 min	9.5 %
Boil	Cascade	25 g	5 min	6 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11 g	Fermentis

## Extras

Type	Name	Amount	Use for	Time
Flavor	Irish Moss	5 g	Boil	15 min