

# Żytnie AIPA 15

- Gravity **14.7 BLG**
- ABV **6.1 %**
- IBU **96**
- SRM **9**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23 liter(s)**
- Boil time **60 min**
- Evaporation rate **18 %/h**
- Boil size **31.9 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **19.5 liter(s)**
- Total mash volume **26 liter(s)**

## Steps

- Temp **68 C**, Time **90 min**
- Temp **78 C**, Time **5 min**

## Mash step by step

- Heat up **19.5 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **90 min** at **68C**
- Keep mash **5 min** at **78C**
- Sparge using **18.9 liter(s)** of **76C** water or to achieve **31.9 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4.5 kg (69.2%)	80 %	5
Grain	Żytni	1.5 kg (23.1%)	85 %	8
Grain	Strzegom Karmel 150	0.5 kg (7.7%)	75 %	150

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	20 g	60 min	13 %
Boil	Warrior	20 g	60 min	15.5 %
Boil	Mosaic	35 g	15 min	10 %
Boil	Mosaic	40 g	10 min	10 %
Boil	Cascade	30 g	10 min	6 %
Boil	Sorachi Ace	40 g	5 min	10 %
Boil	Zythos	40 g	5 min	11 %
Dry Hop	Cascade	50 g	3 day(s)	6 %