

# Żytnia apa

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- Gravity **15 BLG**
- ABV **6.2 %**
- IBU **47**
- SRM **5**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.5 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **19.2 liter(s)**
- Total mash volume **25.6 liter(s)**

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	3 kg (46.9%)	81 %	4
Grain	Żytni	3 kg (46.9%)	85 %	8
Grain	Płatki pszeniczne	0.4 kg (6.3%)	60 %	3

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	45 g	60 min	11 %
Whirlpool	Cascade	30 g	1 min	6 %
Whirlpool	Chinook	30 g	1 min	13 %
Dry Hop	Cascade	30 g	1 day(s)	6 %
Dry Hop	Chinook	30 g	1 day(s)	13 %