

## proste ale 28 l v2

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- Gravity **11.2 BLG**
- ABV **4.5 %**
- IBU **39**
- SRM **3.8**
- Style **American Pale Ale**

### Batch size

- Expected quantity of finished beer **28 liter(s)**
- Trub loss **5 %**
- Size with trub loss **31.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **8 %/h**
- Boil size **36.6 liter(s)**

### Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **19 liter(s)**
- Total mash volume **24.4 liter(s)**

### Steps

- Temp **68 C**, Time **60 min**
- Temp **76 C**, Time **10 min**

### Mash step by step

- Heat up **19 liter(s)** of strike water to **74.9C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **10 min** at **76C**
- Sparge using **23 liter(s)** of **76C** water or to achieve **36.6 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Słód pilznerski Malteurop	2.43 kg (42.4%)	80 %	5
Grain	Pale ale Malteurop	2.67 kg (46.6%)	80 %	8
Sugar	cukier	0.3 kg (5.2%)	100 %	0
Grain	płatki jęczmienne	0.33 kg (5.8%)	65 %	3

### Hops

Use for	Name	Amount	Time	Alpha acid
First Wort	lunga	26 g	60 min	9.5 %
Boil	Citra	32 g	7 min	13.3 %
Boil	sabro	26 g	7 min	15.5 %
Aroma (end of boil)	Citra	32 g	0 min	13.3 %
Aroma (end of boil)	sabro	26 g	0 min	15.5 %
Dry Hop	sabro	40 g	3 day(s)	15.5 %
Dry Hop	Citra	40 g	3 day(s)	13.2 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	22 g	Fermentis

## Extras

Type	Name	Amount	Use for	Time
Fining	Whirlfloc T	1.26 g	Boil	10 min